

EXEMPLO

SEQUENCIAMENTO

Tecla F1 – *HELP*

Tecla F5 – executa o método

✓ - valida o código

Roteiro de construção do exemplo de sequenciamento

- 1) Importação dos dados (importando pedido):
construir tabela de dados: número do pedido, data devida e tempo de processamento;
- 2) Tratamento dos dados (organizando pedidos);
- 3) Liberação dos dados para o *Sorter* (transferindo pedidos para o Sorter);
- 4) Processamento dos pedidos no *Single Proc*;
- 5) Saída – *Drain* – resultados alcançados (por exemplo: tempo total para o atendimento dos pedidos ou atraso total).

1) IMPORTAÇÃO DOS DADOS – pedidos (*cod_pedido*) – 100 pedidos

DADOS ALEATÓRIOS DO EXCELL

Tempos de processamento: (5 – 60) – variação por
pedido de 5 a até 60 minutos (*tempo_proc*)

Data devida: (0 – 6) – variação por pedido de 0 (data de
hoje) até 6 dias – intervalo de tempo de 1 semana
(*data_entrega*)

Boas práticas de programação

B3 =

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2		cod_pedido	tempo_proc	data_entrega									
3	1	=											
4	2												
5	3												
6	4												
7	5												
8	6												
9	7												
10	8												
11	9												
12	10												
13	11												
14	12												
15	13												
16	14												
17	15												
18	16												
19	17												
20	18												

Inserir função

Procure por uma função:
Digite uma breve descrição do que deseja fazer e clique em 'Ir'

Ou selecione uma categoria: Matemática e Trigonometria

Selecione uma função:

- Mais Recentemente Usada
- Tudo
- Financeira
- Data e Hora
- Matemática e Trigonometria
- Estatística
- Pesquisa e Referência
- Banco de Dados
- Texto
- Lógico
- Informações

ABS(núm)
Retorna o valor absoluto de (Definido pelo Usuário)

[Ajuda sobre esta função](#) OK Cancelar

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2		cod_pedido	tempo_proc	data_entrega									
3	1	=											
4	2												
5	3												
6	4												
7	5												
8	6												
9	7												
10	8												
11	9												
12	10												
13	11												
14	12												
15	13												
16	14												
17	15												
18	16												
19	17												
20	18												

Inserir função

Procure por uma função:
Digite uma breve descrição do que deseja fazer e clique em 'Ir'

Ou selecione uma categoria: Matemática e Trigonométrica

Selecione uma função:

- ABS
- ACOS
- ACOSH
- AGREGAR
- ALEATÓRIO
- ALEATÓRIOENTRE**
- ARRED

ALEATÓRIOENTRE(inferior;superior)
Retorna um número aleatório entre os números especificados.

[Ajuda sobre esta função](#)

OK Cancelar

Pasta2 - Microsoft Excel

Arquivo | Página Inicial | Inserir | Layout da Página | Fórmulas | Dados | Revisão | Exibição | Suplementos

Inserir Função | AutoSoma | Usadas Recentemente | Biblioteca de Funções: Financeira, Lógica, Texto, Data e Hora, Pesquisa e Referência, Matemática e Trigonometria, Mais Funções

Definir Nome | Usar em Fórmula | Gerenciador de Nomes | Criar a partir da Seleção | Nomes Definidos

Rastrear Precedentes | Rastrear Dependentes | Remover Setas | Auditoria de Fórmulas

Mostrar Fórmulas | Verificação de Erros | Avaliar Fórmula

Janela de Inspeção | Opções de Cálculo | Calcular Agora | Calcular Planilha | Cálculo

ALEATÓRIOENTRE | fx | =ALEATÓRIOENTRE(5;60)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2		cod_pedido	tempo_proc	data_entrega										
3		1	TRE(5;60)											
4		2												
5		3												
6		4												
7		5												
8		6												
9		7												
10		8												
11		9												
12		10												
13		11												
14		12												
15		13												
16		14												
17		15												
18		16												
19		17												
20		18												

Argumentos da função

ALEATÓRIOENTRE

Inferior = 5

Superior = 60

= Volátil


Retorna um número aleatório entre os números especificados.

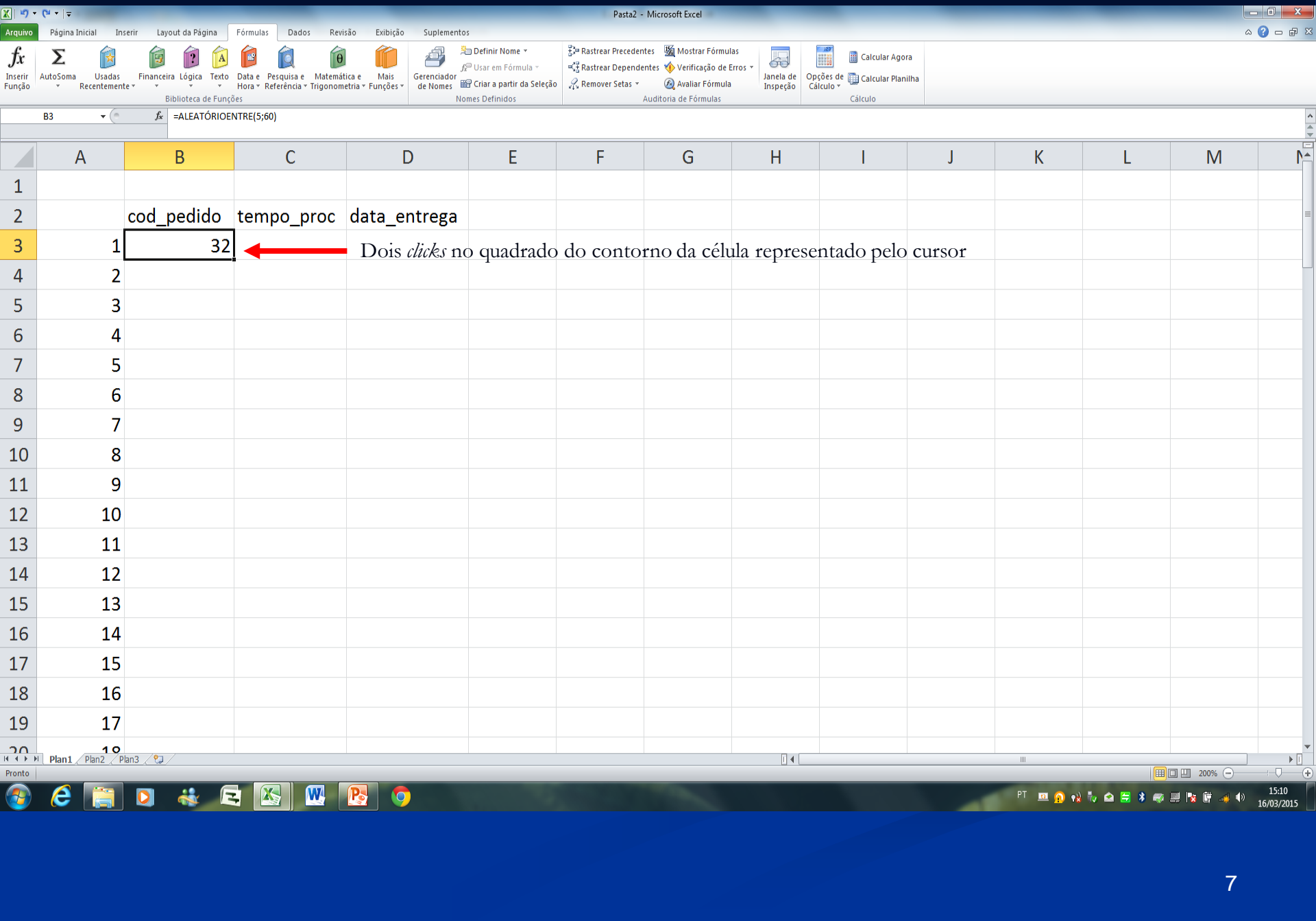
Superior é o maior inteiro que ALEATÓRIOENTRE retornará.

Resultado da fórmula = Volátil

[Ajuda sobre esta função](#)

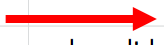
OK Cancelar





Dois *clicks* no quadrado do contorno da célula representado pelo cursor

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2		cod_pedido	tempo_proc	data_entrega									
3	1	8											
4	2	6											
5	3	33											
6	4	7											
7	5	6											
8	6	35											
9	7	54											
10	8	41											
11	9	51											
12	10	21											
13	11	48											
14	12	41											
15	13	41											
16	14	47											
17	15	41											
18	16	50											
19	17	11											
20	18	40											



Transferência das colunas para o cabeçalho correto, eliminação das demais planilhas do arquivo e nomear como pedido

Pasta2 - Microsoft Excel

Arquivo | Página Inicial | Inserir | Layout da Página | Fórmulas | Dados | Revisão | Exibição | Suplementos

Calibri 11 | Quebrar Texto Automaticamente | Geral | Normal | Bom | Incorreto | Neutra | Cálculo | Célula de Ve... | Célula Vincu... | Entrada

Fonte | Alinhamento | Número | Estilo | Células

B2 | cod_pedido

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2		cod_pedido	tempo_proc	data_entrega									
3		1	48										
4		2	19										
5		3	56										
6		4	45										
7		5	32										
8		6	24										
9		7	35										
10		8	24										
11		9	12										
12		10	12										
13		11	54										
14		12	34										
15		13	48										
16		14	7										
17		15	23										
18		16	15										
19		17	20										
20		18	12										

pedido

Pronto

200%

15:14 16/03/2015

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2		cod_pedido	tempo_proc	data_entrega									
3		1	53	0									
4		2	6	1									
5		3	25	1									
6		4	26	6									
7		5	54	4									
8		6	7	5									
9		7	40	1									
10		8	43	1									
11		9	54	6									
12		10	23	3									
13		11	30	2									
14		12	35	1									
15		13	18	6									
16		14	55	1									
17		15	56	5									
18		16	44	0									
19		17	60	1									
20		18	48	5									

Finalizar configuração e salvar o arquivo como pedidos

Plant Simulation

Software

Licença USP 10



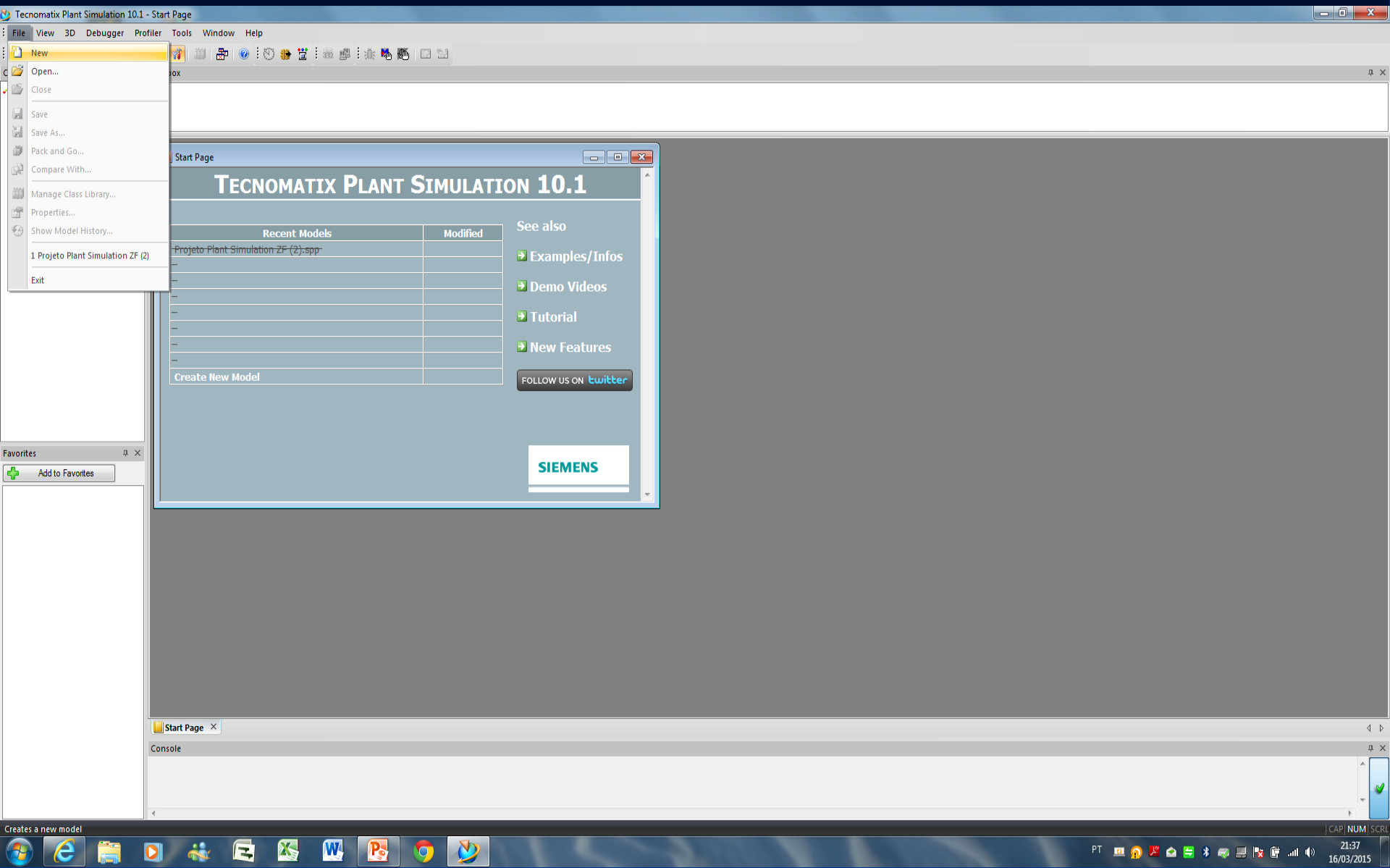
Student 11



segunda-feira
16
março 2015

Não é possível conectar ao serviço

PT [System Tray Icons] 15:24 16/03/2015



Tecnomatix Plant Simulation 10.1 - Start Page

- New
- Open...
- Close
- Save
- Save As...
- Pack and Go...
- Compare With...
- Manage Class Library...
- Properties...
- Show Model History...
- 1 Projeto Plant Simulation ZF (2)
- Exit

TECNOMATIX PLANT SIMULATION 10.1

Recent Models	Modified
-Projeto Plant Simulation ZF (2).spp	

See also

- Examples/Infos
- Demo Videos
- Tutorial
- New Features

Create New Model

FOLLOW US ON [twitter](#)

SIEMENS

Favorites

Add to Favorites

Start Page

Console

Creates a new model

21:37
16/03/2015



Start Page

Tecnomatix Plant Simulation 11

Recent Models	Modified
Aula 01.spp	17/03/2015 08:12
USP_1.spp	16/03/2015 13:04
Modelo-TCC 1.spp	30/10/2014 09:51
Modelo-TCC.spp	29/10/2014 15:33
-Modelo-TCC.spp-	
Walther_PLT101_StartingModel_V101 11 desafio graf 061021	07/10/2014 00:52
Walther_PLT101_StartingModel_V101 11 desafio graf 041021	04/10/2014 17:31
Walther_PLT101_StartingModel_V101 11 desafio graf 021021	04/10/2014 17:12

Create New Model

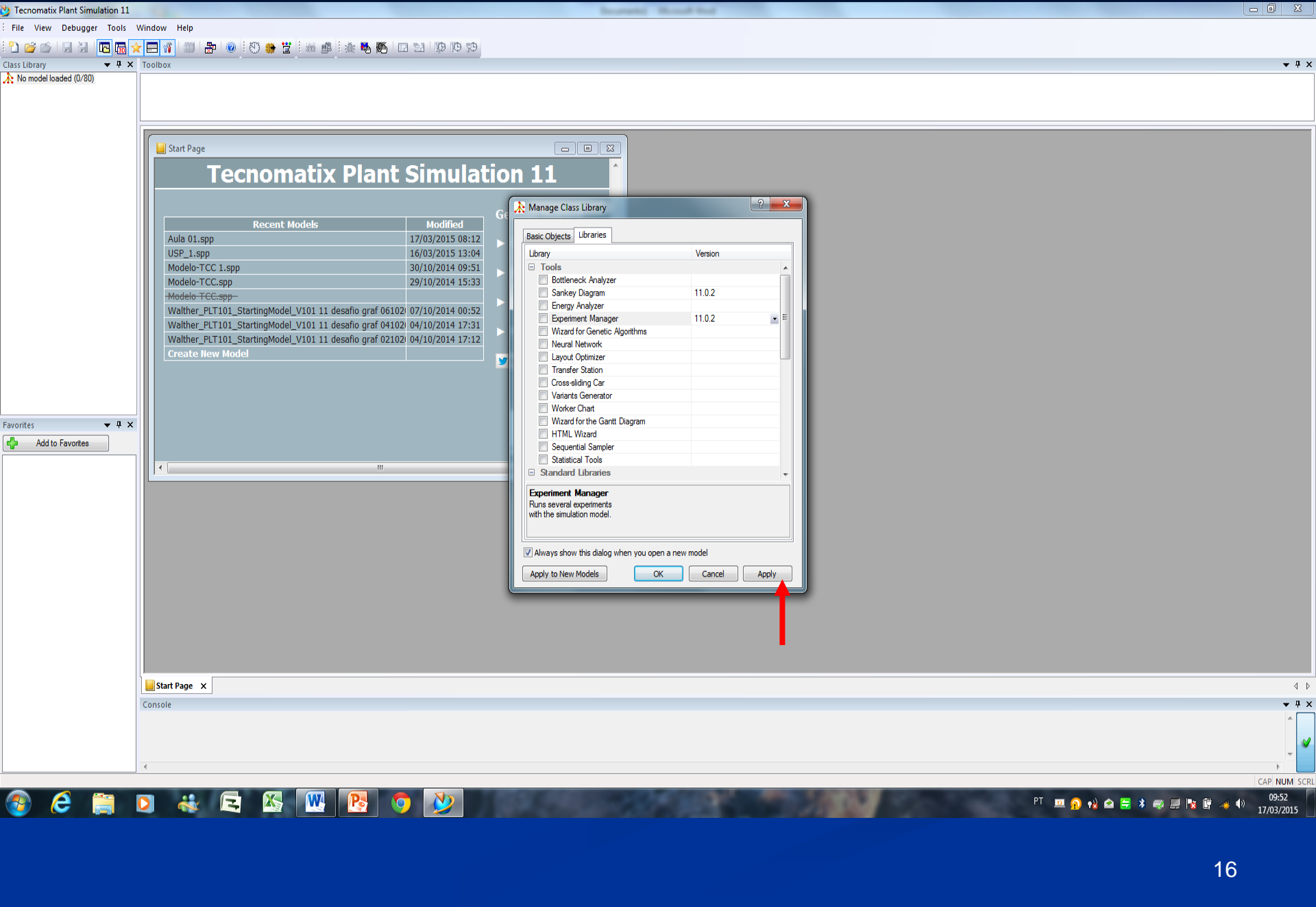
Manage Class Library

Basic Objects Libraries

Library	Version
<input type="checkbox"/> Bottleneck Analyzer	
<input checked="" type="checkbox"/> Sankey Diagram	11.0.2
<input type="checkbox"/> Energy Analyzer	
<input checked="" type="checkbox"/> Experiment Manager	11.0.2
<input type="checkbox"/> Wizard for Genetic Algorithms	
<input type="checkbox"/> Neural Network	
<input type="checkbox"/> Layout Optimizer	
<input type="checkbox"/> Transfer Station	
<input type="checkbox"/> Cross-sliding Car	
<input type="checkbox"/> Variants Generator	
<input type="checkbox"/> Worker Chart	
<input type="checkbox"/> Wizard for the Gantt Diagram	
<input type="checkbox"/> HTML Wizard	
<input type="checkbox"/> Sequential Sampler	
<input type="checkbox"/> Statistical Tools	
<input type="checkbox"/> Standard Libraries	

Always show this dialog when you open a new model

Apply to New Models OK Cancel Apply



- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs



Add to Favorites

Manage Class Library

Basic Objects Libraries

Library	Version
<input type="checkbox"/> Bottleneck Analyzer	
<input type="checkbox"/> Sankey Diagram	11.0.2
<input type="checkbox"/> Energy Analyzer	
<input type="checkbox"/> Experiment Manager	11.0.2
<input type="checkbox"/> Wizard for Genetic Algorithms	
<input type="checkbox"/> Neural Network	
<input type="checkbox"/> Layout Optimizer	
<input type="checkbox"/> Transfer Station	
<input type="checkbox"/> Cross-sliding Car	
<input type="checkbox"/> Variants Generator	
<input type="checkbox"/> Worker Chart	
<input type="checkbox"/> Wizard for the Gantt Diagram	
<input type="checkbox"/> HTML Wizard	
<input type="checkbox"/> Sequential Sampler	
<input type="checkbox"/> Statistical Tools	

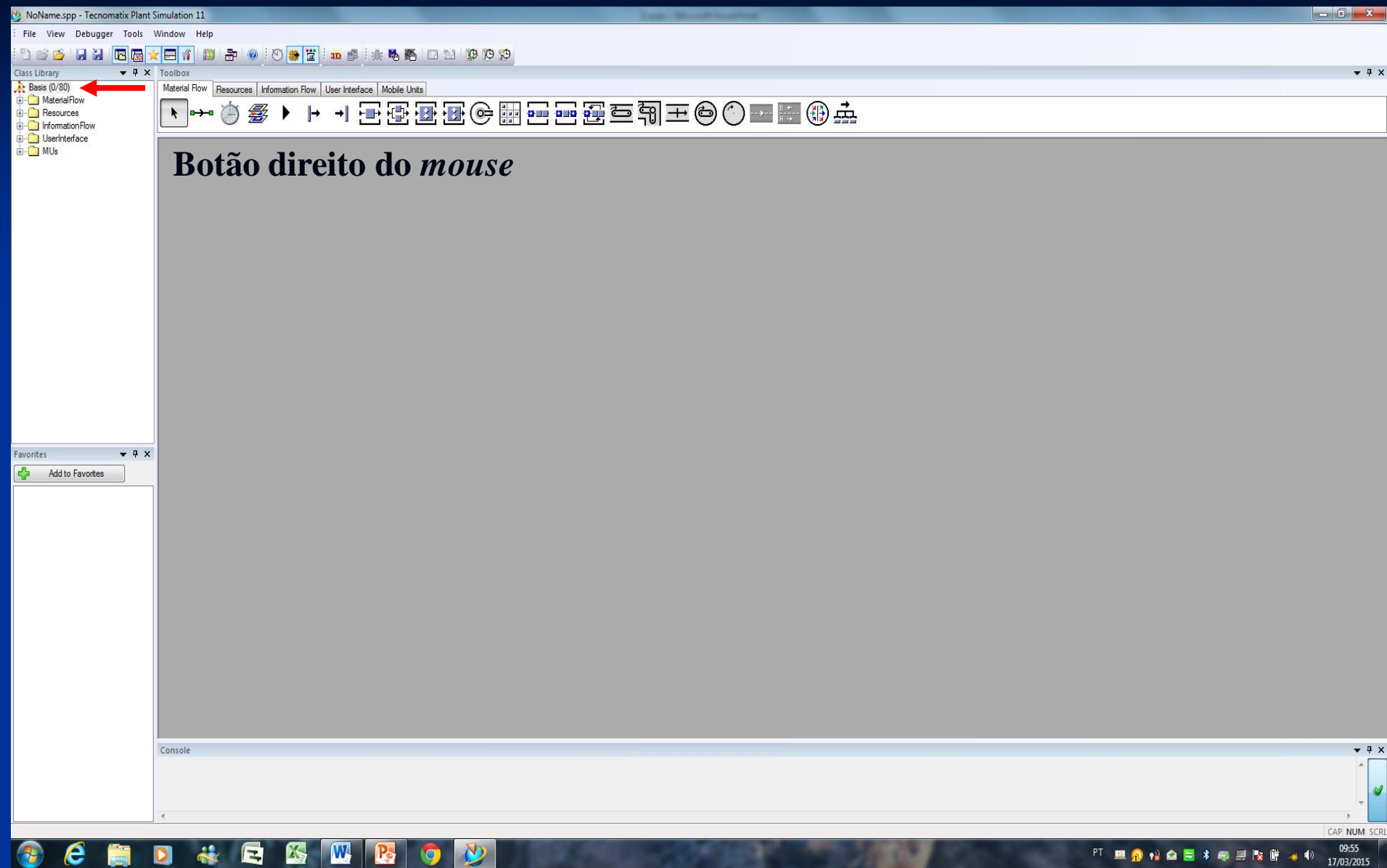
Standard Libraries

Experiment Manager
Runs several experiments with the simulation model.

Always show this dialog when you open a new model

Apply to New Models OK Cancel Apply



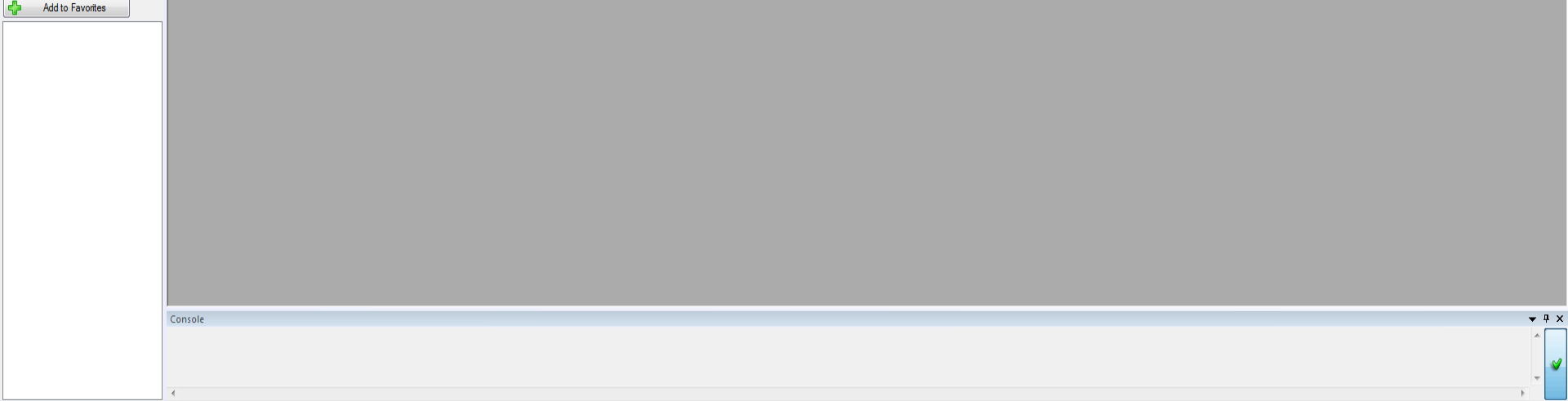


Botão direito do *mouse*



- New
- Paste
- Open in 3D
- Duplicate
- Delete
- Rename
- Show Structure
- Show MU Statistics
- Show Attributes and Methods
- Make Library...
- Print...
- Find Object...
- Save/Load

- Folder
- Frame
- Toolbar



Console



Class Library

- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- NewFolder



Toolbox



Favorites

Add to Favorites



Console



- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models



Material Flow Resources Information Flow User Interface Mobile Units

A horizontal toolbar containing various icons for creating and editing simulation elements, categorized under Material Flow, Resources, Information Flow, User Interface, and Mobile Units.

Add to Favorites





Class Library

- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models

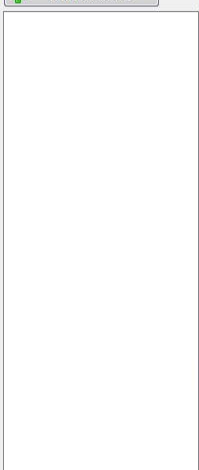
Material Flow Resources Information Flow User Interface Mobile Units



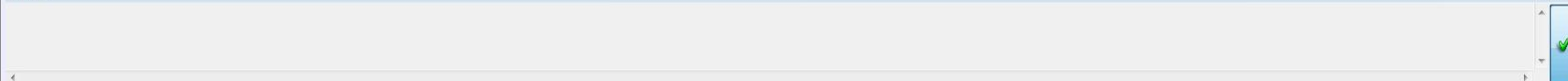
- New
 - Folder
 - Frame
 - Toolbar
- Paste
- Open in 3D
- Duplicate
- Delete
- Rename
- Show Structure
- Show MU Statistics
- Show Attributes and Methods
- Make Library...
- Print...
- Find Object...
- Save/Load

Favorites

Add to Favorites



Console

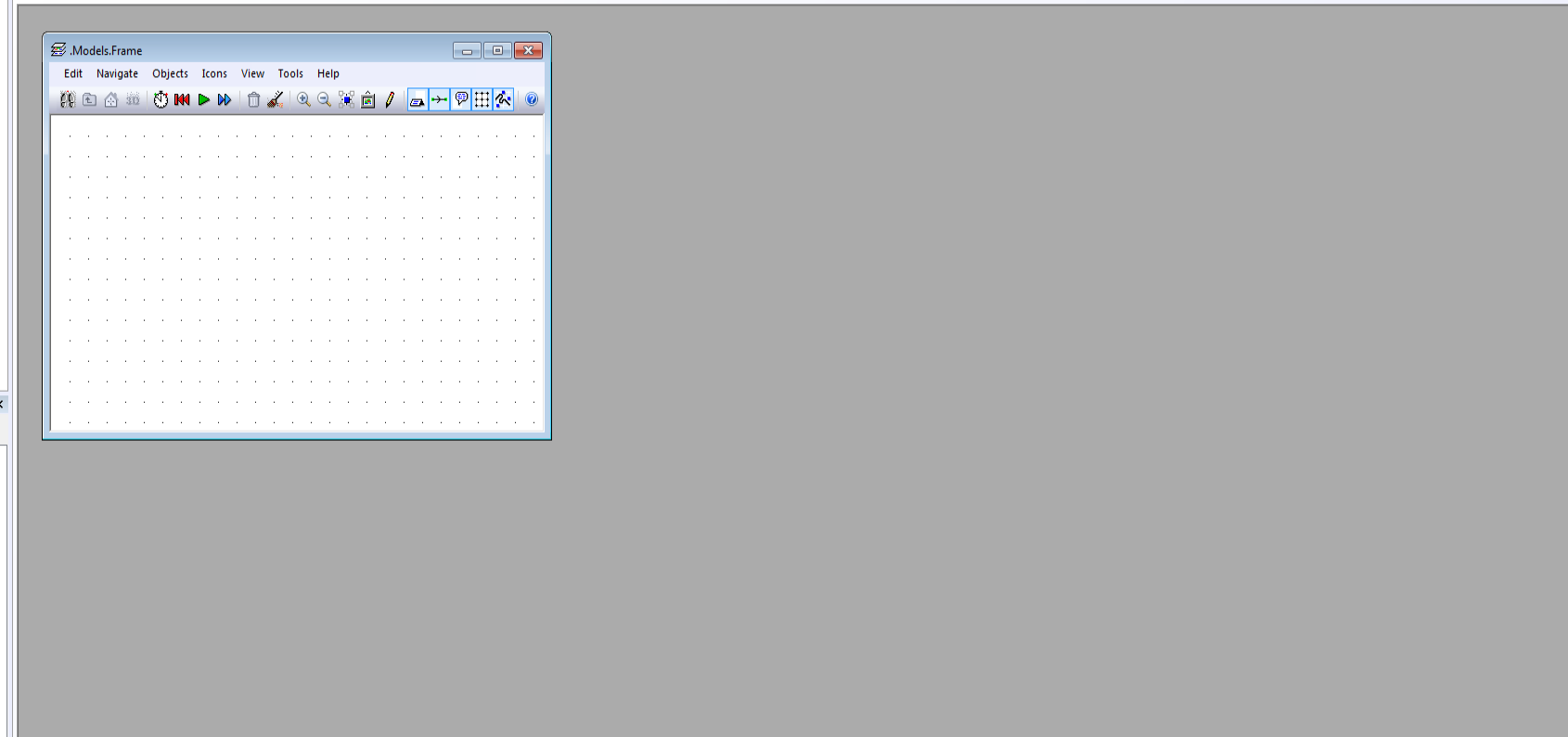


Creates a new frame class

CAP NUM SCRL



Material Flow Resources Information Flow User Interface Mobile Units



.Models.Frame

Edit Navigate Objects Icons View Tools Help

Frame x

Console



Class Library

- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame

Material Flow Resources Information Flow User Interface Mobile Units

Models.Frame

Navigate Objects Icons View Tools Help

- Open
- Open in 3D
- Duplicate
- Derive
- Cut Inheritance
- Delete
- Rename**
- Show Origin
- Show Structure
- Show Inheritance
- Show MU Statistics
- Show Attributes and Methods
- Edit Icons...
- Edit Display Panel...
- Print...
- Find Object...
- Save Object As...

Favorites

Add

Frame x

Console

Renames this class



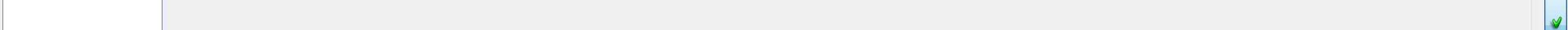


Rename

Name:

Label:

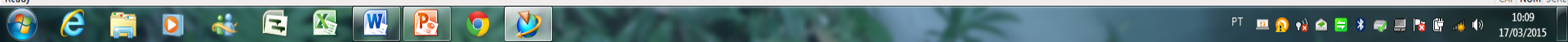
OK Cancel



The main workspace area contains a large grid. A 'Rename' dialog box is open in the center, with a red arrow pointing to the 'OK' button. The dialog box has the following fields:

- Name: Frame1
- Label: Sequenciamento
- Buttons: OK, Cancel

The main workspace is a large grid area where the simulation model is built. It is currently empty, showing only the grid lines. The grid is composed of small squares, typical of a CAD or simulation environment.





Class Library

- Basis (0/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MLs
- Models
- Frame1

Material Flow



EventController

Edit Navigate Objects Icons View Tools Help



Frame1 x

Console

Favorites

Add to Favorites



NoName.spp - Tecnomatix Plant Simulation 11 - [Models:Frame1]

File View Debugger Tools Window Help

Class Library

- Basis (1/30)
 - MaterialFlow
 - Resources
 - InformationFlow
 - UserInterface
 - MUs
 - Models
 - Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

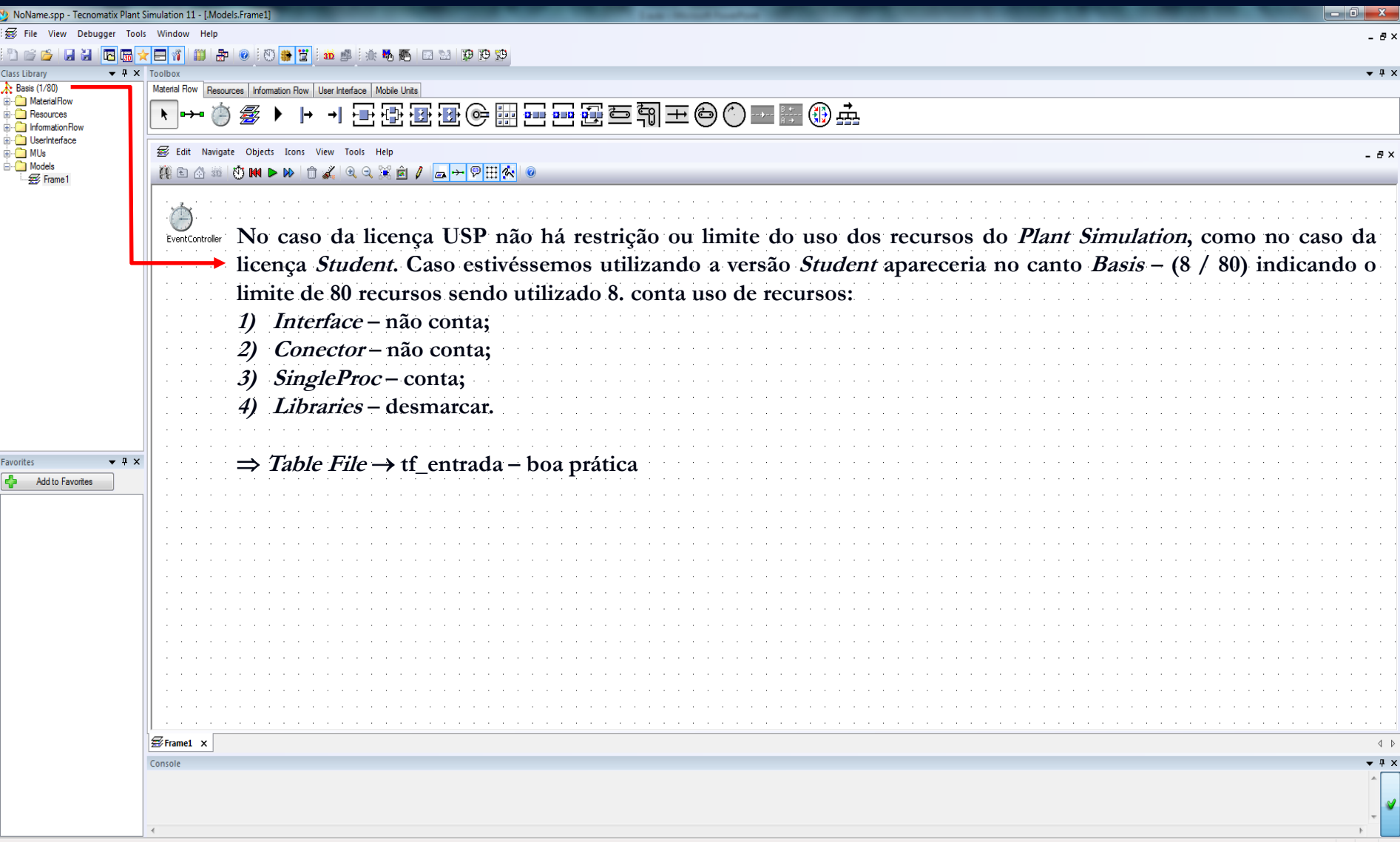
Dá um *click*

Frame1 x

Console

CAP NUM SCRL

10:12
17/03/2015



No caso da licença USP não há restrição ou limite do uso dos recursos do *Plant Simulation*, como no caso da licença *Student*. Caso estivessemos utilizando a versão *Student* apareceria no canto *Basis* – (8 / 80) indicando o limite de 80 recursos sendo utilizado 8. conta uso de recursos:

- 1) *Interface* – não conta;
- 2) *Conector* – não conta;
- 3) *SingleProc* – conta;
- 4) *Libraries* – desmarcar.

⇒ *Table File* → *tf_entrada* – boa prática

NoName.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1]

File View Debugger Tools Window Help

Class Library

- Basis (1/30)
 - MaterialFlow
 - Resources
 - InformationFlow
 - UserInterface
 - MUs
 - Models
 - Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Frame1 x

Console

CAP NUM SCRL

10:12
17/03/2015

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Toolbox

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Frame1 x

Console

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

TableFile

Edit Navigate Create Connections View Tools Help

EventController

Favorites

+ Add to Favorites

Frame1 x

Console

NoName.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Frame1 x

Console

Left-click to insert the object 'TableFile'. Hold down the <Ctrl> key to insert multiple objects.



File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

TableFile

Frame1 x

Console



File View Debugger Tools Window Help

Class Library | Toolbox

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Botão direito do mouse

- Open
- Delete
- Rename... F2
- Open Origin Home
- Open Class Alt+Home
- Reorder Successors
- Show Attributes and Methods... F8
- Arrange Icons
- Edit Icons... Ctrl+I
- Edit Display Panel...
- Previous Icon Ctrl+Page up
- Next Icon Ctrl+Page down

Favorites

Add to Favorites

Frame1 x

Console



Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- Mobile Units
- MIUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units



Rename

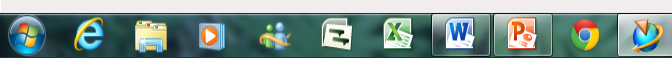
Name: tf_entrada

Label: importa datos

OK Cancel



Console



NoName.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- Mobile Units

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

Zoom In
Zooms in the contents of the Frame
(Ctrl+Mouse Wheel Up)

EventController

tf_entrada

Frame1 x

Console

Zooms in the contents of the Frame (Ctrl+Mouse Wheel Up)

Windows taskbar icons: Internet Explorer, File Explorer, VLC, Steam, Word, PowerPoint, Chrome, Firefox

System tray: PT, network, volume, date: 10:25 17/03/2015



Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MLs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units



EventController

tf_entrada

Add to Favorites

Console



NoName.spp - Tecnomatix Plant Simulation 11 - [Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

TableFile

Edit Navigate Objects Icons View Tools Help

EventController

tf_entrada

Frame1 (175%) x

Console

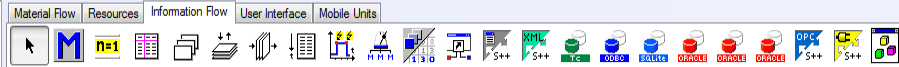

EventController


tf_entrada


TableFile

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- Mobile Units
- MUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units



EventController



tf_entrada



TableFile

Rename

Name:

Label:

OK Cancel

Add to Favorites

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MIU
- Models
- Frame1

Toolbox

Material Flow Resources Information Flow User Interface Mobile Units



EventController



tf_entrada



tf_datos

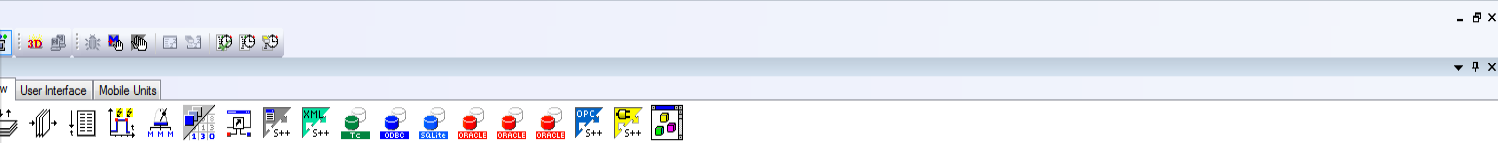
Empty Favorites list area.

Console

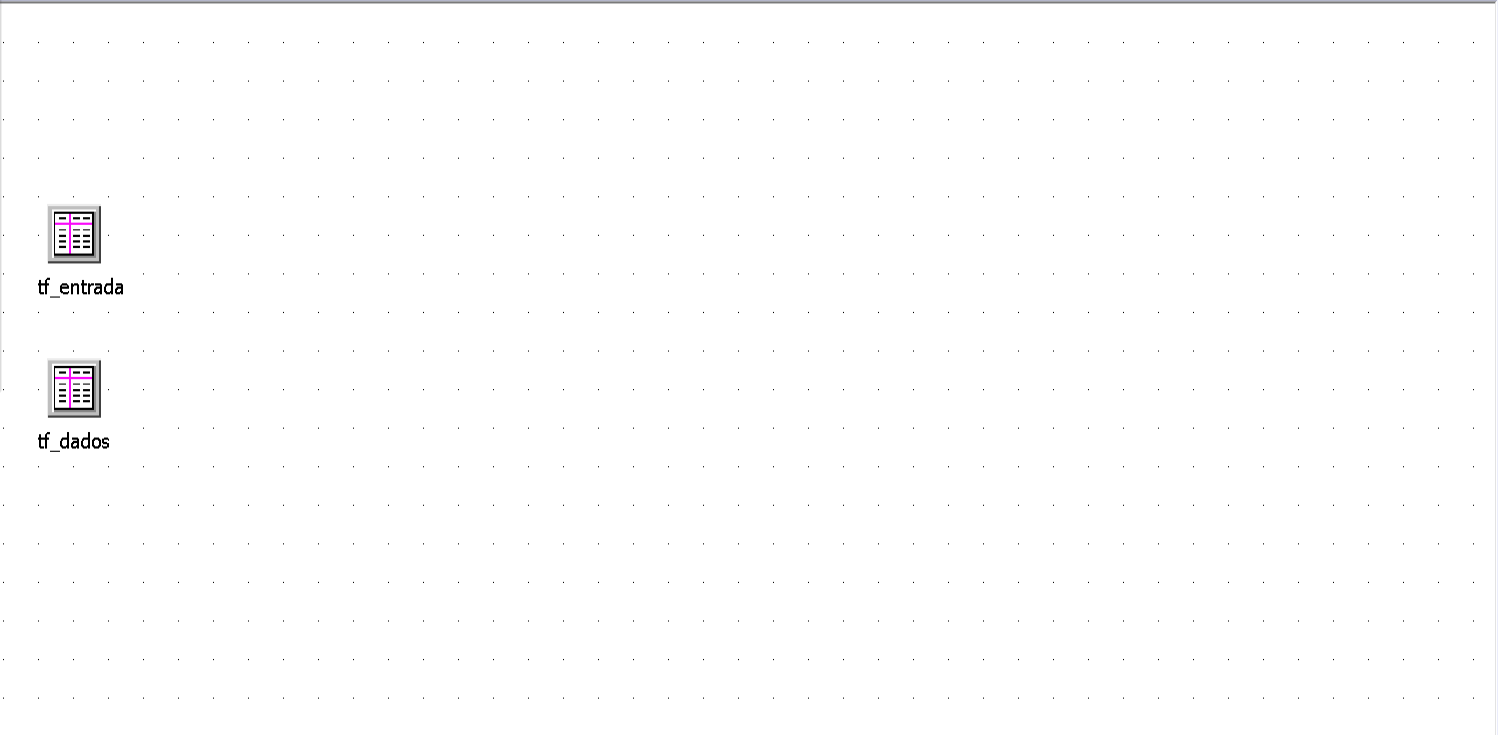
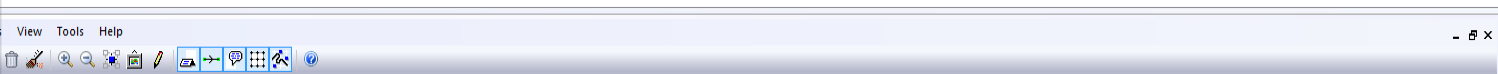
- File
- View
- Debugger
- Tools
- Window
- Help

- New
- Open...
- Close
- Save
- Save As...
- Teamcenter
- Send E-mail...
- Pack and Go...
- Compare With...
- Properties...
- Show Model History...
- Manage Class Library...
- 1 Aula 01
- 2 USP_1
- 3 C:\Users\...\Modelo-TCC 1
- 4 C:\Users\...\Murilo\Modelo-TCC
- 5 Modelo-TCC
- 6 Walther_PLT101_StartingModel_V101 11 desafio graf 06102014
- 7 Walther_PLT101_StartingModel_V101 11 desafio graf 04102014
- 8 Walther_PLT101_StartingModel_V101 11 desafio graf 02102014
- Exit

User Interface | Mobile Units



View | Tools | Help



tf_entrada

tf_dados

Frame1 (175%) x

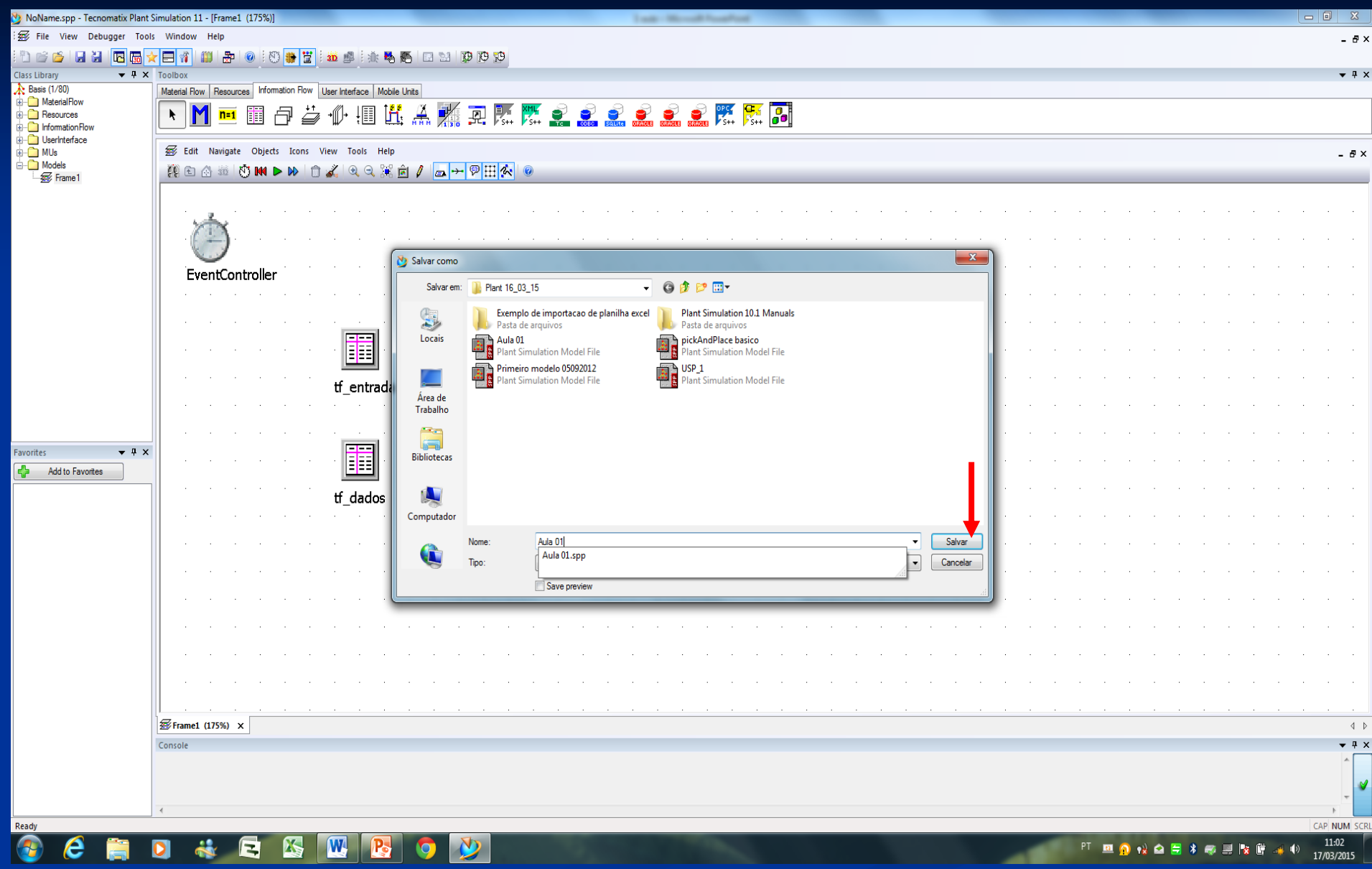
Console

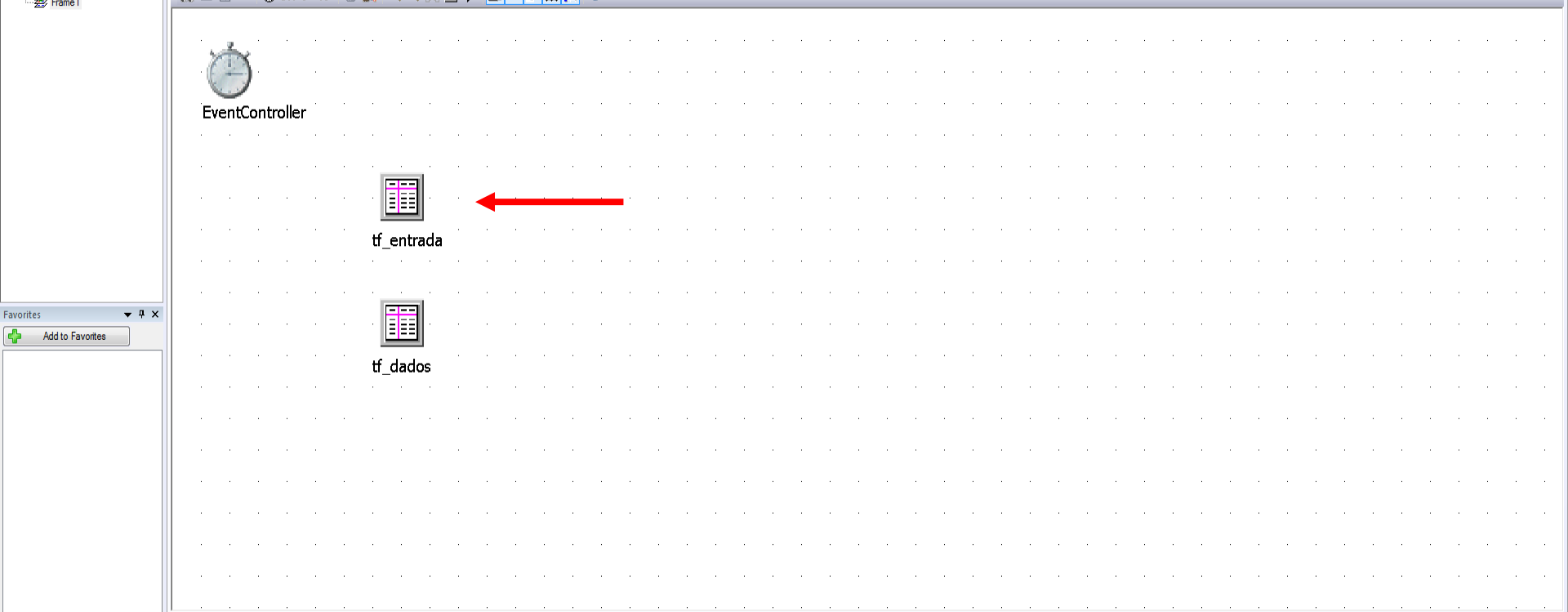
Saves the model with a new name



PT 11:02 17/03/2015







Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3	string 5	string 6	string 7	string 8	string 9	string 10	string 11
1										
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30										

Inherit ⇒ **F** – desmarca – *over read* – quebra a derivação do objeto da planilha mãe

Frame1 (175%) tf_entrada x

Console

Indicação da Tabela – *click* no “x” fecha a Tabela e volta para o *Frame* ou *click* no *Frame*

Activates/deactivates inheriting the format

11:05 17/03/2015

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
1											
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Frame1 (175%) tf_entrada x

Console

Ready

11:13 17/03/2015

Linha zero – reservado para as etiquetas ⇒ poder *string*, *text*

File View Debugger Tools Window Help

Class Library: Basis (1/80), MaterialFlow, Resources, InformationFlow, UserInterface, MUls, Models, Frame1

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string	string	string	string	string	string	string	string	string	string
1										
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Dar um *click* com o botão esquerdo do *mouse* para selecionar toda a Tabela

Frame1 (175%) tf_entrada x

Console

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Class Library Toolbox

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string	string	string	string	string	string	string	string	string	string
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Frame1 (175%) tf_entrada x

Console

Ready

PT 11:32 17/03/2015

Dar um *click* com o botão direito do *mouse*

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
1											
2											
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Frame1 (175%) tf_entrada x

Console

Defines settings for the entire list

PT 11:33 17/03/2015

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Favorites

Add to Favorites

	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
1											
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List Format

Settings Permissions Dimension Data Type

Data type: String

Format string:

Range: {1,1}..{*,*}

OK Cancel Apply

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
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List Format

Settings Permissions Dimension Data Type

Data type: String

Format string:

- Boolean
- Integer
- Real
- String
- Object
- Table
- List
- Stack
- Queue
- Time
- Money
- Length
- Weight
- Speed
- Acceleration
- Date
- DateTime

Range: {1,1}..

Apply

Frame1 (175%) tf_entrada x

Console



	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
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List Format

Settings Permissions **Dimension** Data Type

Data type: String

Format string:

Range: {1,1}..{*,*}

OK Cancel Apply

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
1											
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Frame1 (175%) tf_entrada x

Console

Ready

11:38 17/03/2015

PT

55

List Format

Settings Permissions Dimension Data Type

Number of rows:

Number of columns:

Column width:


Range:

OK Cancel Apply

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units



	string 1	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
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4											
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30											

List Format

Settings Permissions Dimension Data Type


Number of rows:

Number of columns:

Column width:

Range:

OK Cancel Apply



Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_entrada]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- Mobile Units

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3
1			
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31			

Frame1 (175%) tf_entrada x

Console

Ready

12:02 17/03/2015

Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Models
- Frame1

Toolbox



	string 1	string 2	string 3
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Favorites

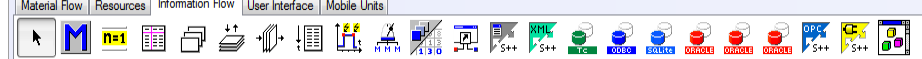
Add to Favorites

Console

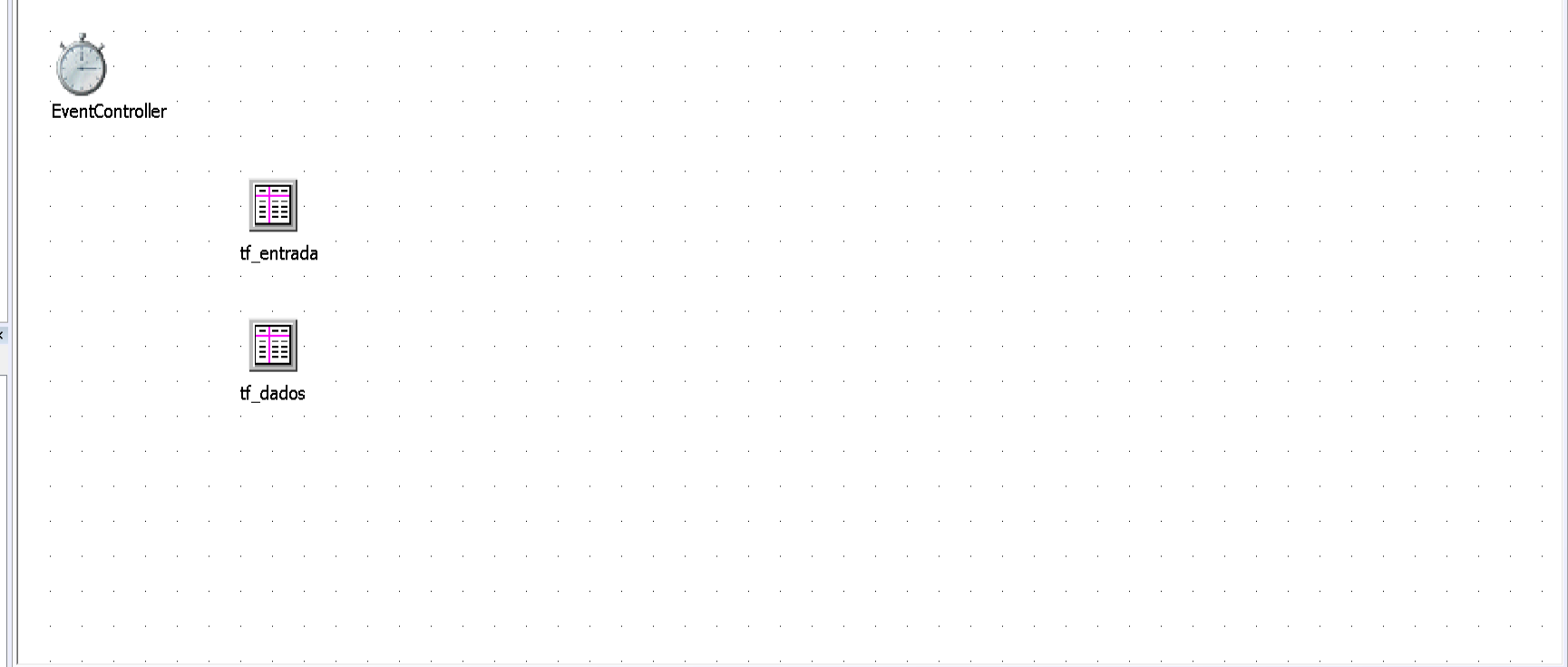
	string 1	string 2	string 3
1	cod_pedido	tempo_proc	data_entrega
2			
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File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



Edit Navigate Objects Icons View Tools Help

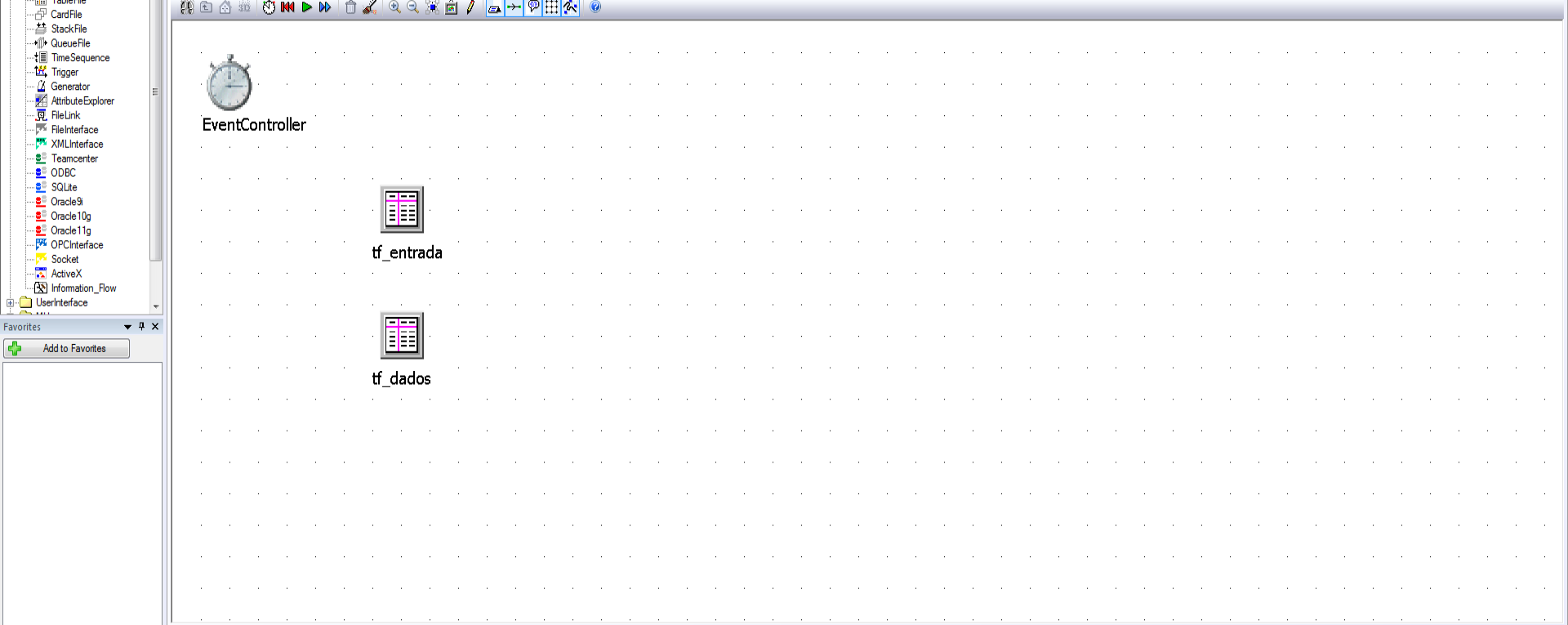


Favorites

Add to Favorites

Frame1 (175%) x

Console



Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
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- Generator
- AttributeExplorer
- FileLink
- FileInterface
- XMLInterface
- Teamcenter
- ODBC
- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

tf_entrada

tf_datos

Frame1 (175%) x

Console

CAP NUM SCRL

13:28 17/03/2015



Class Library

- Basis (1/80)
- MaterialFlow
- Resources
- InformationFlow
- Method
- Variable
- TableFile
- CardFile
- StackFile
- QueueFile
- TimeSequence
- Trigger
- Generator
- AttributeExplorer
- FileLink
- FileInterface
- XMLInterface
- Teamcenter
- ODBC
- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

M File Edit Navigate Run Template View Tools Help

```
1 is
2 do
3 end;
```

Favorites

+ Add to Favorites

Frame1 (175%) M Method x

Console

MÉTODOS

APLICADOS

1º Método

1º Método

IMPORTAÇÃO DOS DADOS

Método para importação de dados

- 1) Método – **mtd_importação** (importação dos dados para a Tabela **tf_entrada** e o tratamento dos dados na Tabela **tf_dados**)

is

```
linhas : integer;
```

← Variáveis

```
i :integer;
```

do

```
--importa dados do excel
```

← Comentários

```
tf_entrada.readExcelFile("Pedidos.xlsx");
```

```
--tratar os dados
```

← Dimensão em linhas

```
linhas := tf_entrada.YDim - 2;
```

← 1ª linha em branco

← 2ª linha cabeçalho

```
for i := 1 to linhas loop
```

```
    tf_dados[1,i] := str_to_Num(tf_entrada[1,i+2]); --cod_produto
```

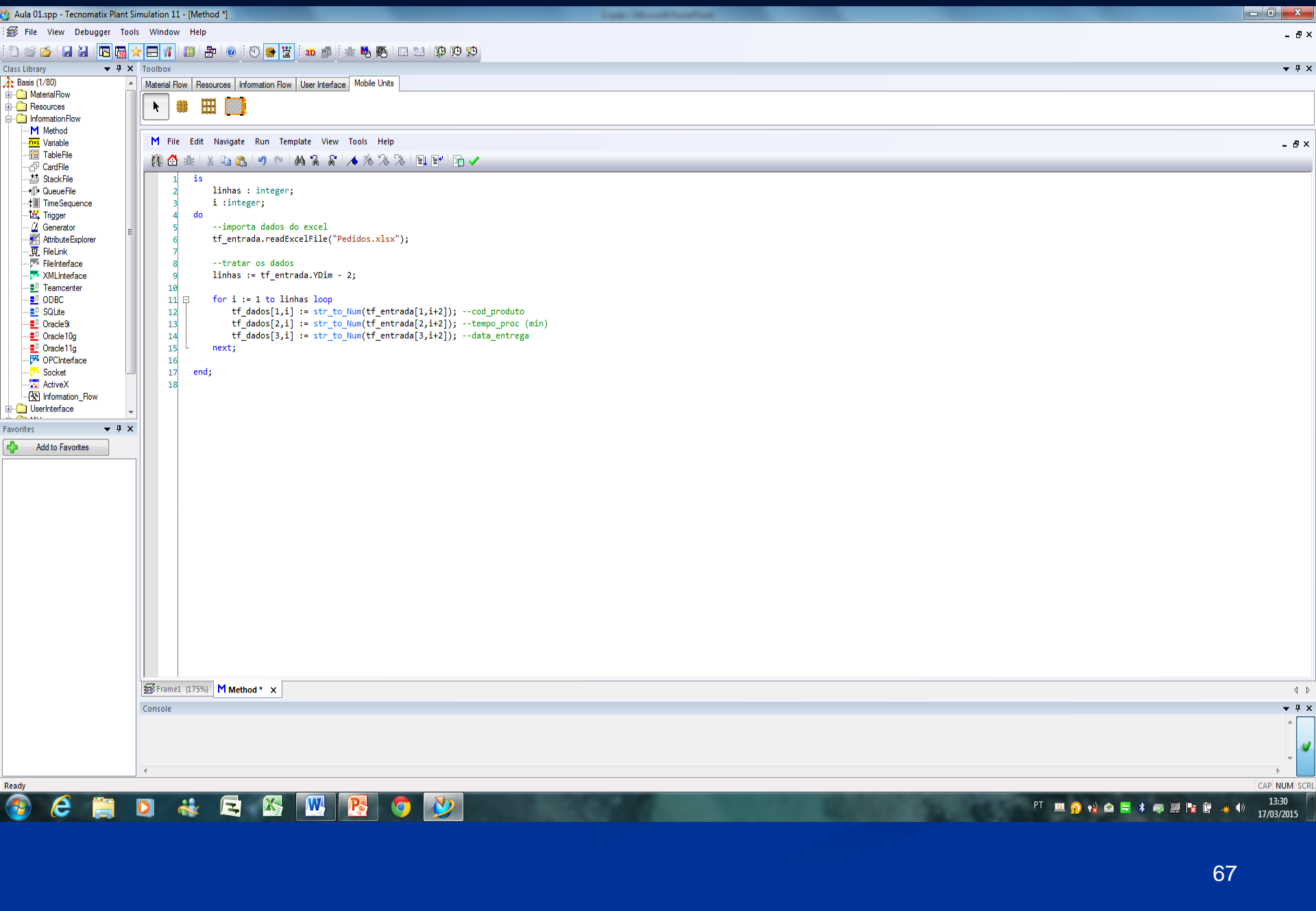
```
    tf_dados[2,i] := str_to_Num(tf_entrada[2,i+2]); --tempo_proc (min)
```

```
    tf_dados[3,i] := str_to_Num(tf_entrada[3,i+2]); --data_entrega
```

```
next;
```

[coluna (y), linha (i)]

end;



Aula 01.spp - Tecnomatix Plant Simulation 11 - [Method *]

File View Debugger Tools Window Help

Class Library

- Basis (1/80)
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- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Navigate Run Template View Tools Help

```
1 is
2   linhas : integer;
3   i : integer;
4 do
5   --importa dados do excel
6   tf_entrada.readExcelFile("Pedidos.xlsx");
7
8   --tratar os dados
9   linhas := tf_entrada.YDim - 2;
10
11  for i := 1 to linhas loop
12    tf_dados[1,i] := str_to_Num(tf_entrada[1,i+2]); --cod_produto
13    tf_dados[2,i] := str_to_Num(tf_entrada[2,i+2]); --tempo_proc (min)
14    tf_dados[3,i] := str_to_Num(tf_entrada[3,i+2]); --data_entrega
15  next;
16
17 end;
18
```

Apply Changes (F7)
Applies changes to the source code

Frame1 (175%) M Method * x

Console

Applies changes to the source code

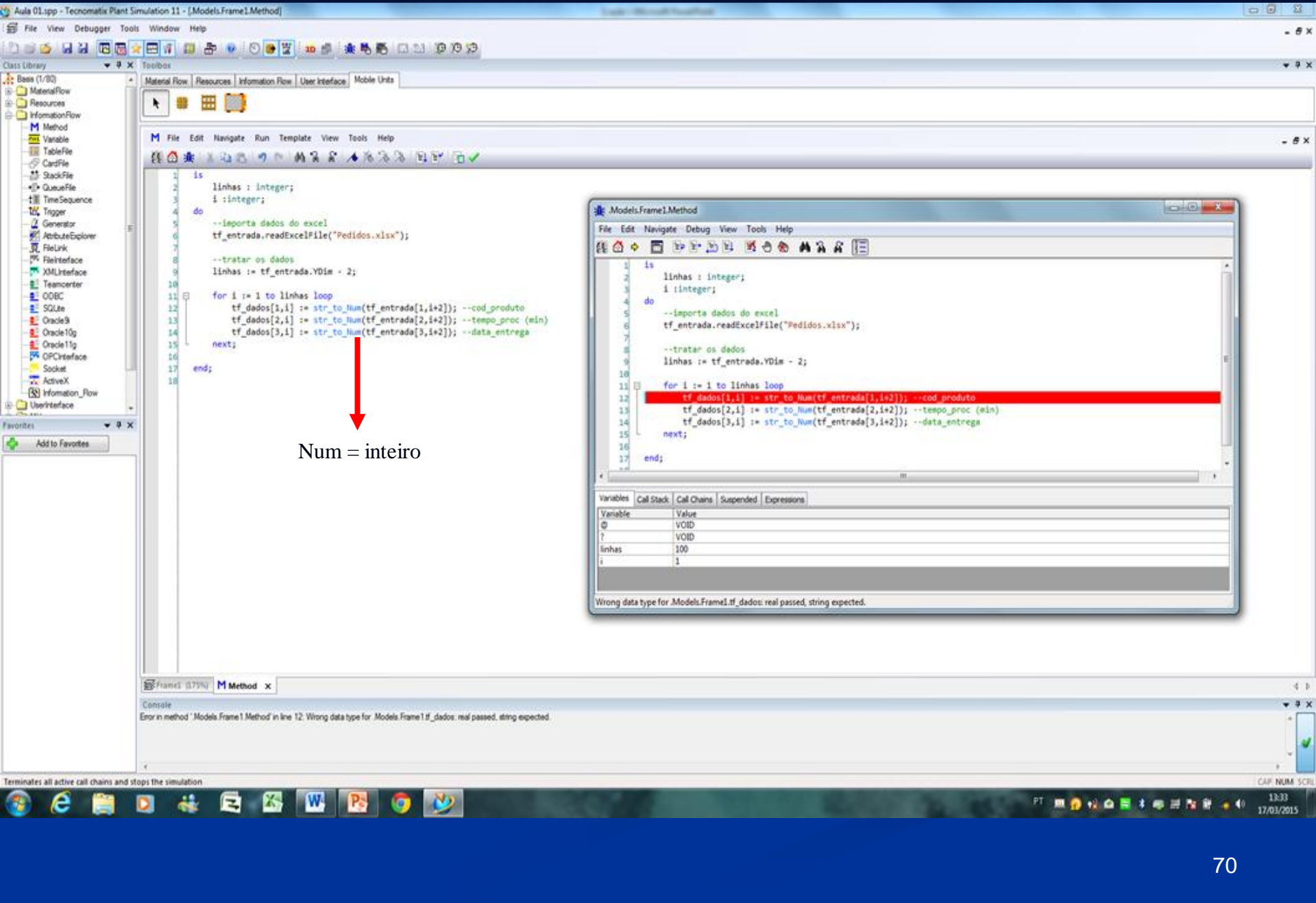
CAP NUM SCRL

13:31
17/03/2015

Material Flow Resources Information Flow User Interface Mobile Units

```
1 is
2   linhas :
3   i :integ
4 do
5   --import
6   tf_entrada;
7
8   --tratar os dados
9   linhas := tf_entrada.YDim - 2;
10
11 for i := 1 to linhas loop
12   tf_dados[1,i] := str_to_Num(tf_entrada[1,i+2]); --cod_produto
13   tf_dados[2,i] := str_to_Num(tf_entrada[2,i+2]); --tempo_proc (min)
14   tf_dados[3,i] := str_to_Num(tf_entrada[3,i+2]); --data_entrega
15 next;
16
17 end;
18
```

Console



Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	string 1	string 2	string 3
1	cod_Pedido	tempo_proc	data_entrega
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31			

String ⇒ integer

M Method Frame1 (175%) tf_dados x

Console

Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.
Error in method 'Models.Frame1.Method' in line 6: Unknown identifier readExcelFile
Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.
Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.

Ready

PT 14:16 17/03/2015

Class Library

- Basis (1/80)
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- AttributeExplorer
- FileLink
- FileInterface
- XMLInterface
- Teamcenter
- ODBC
- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Toolbox

Material Flow Resources Information Flow User Interface Mobile Units

	string	string	string
1	cod_P		
2	cod_P	_proc	data_entrega
3			
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31			

- Open Object F2
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Delete Ctrl+D
- Insert Row
- Insert Column
- Format...
- Find... Ctrl+F
- Sort Ascending
- Sort Descending

Console

Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.
Error in method 'Models.Frame1.Method' in line 6: Unknown identifier readExcellFile
Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.
Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados: real passed, string expected.

List Format

Settings Permissions Dimension Data Type

Data type: String

Format string: Integer

Range: {1,1}..Weight

Apply

Material Flow Resources Information Flow User Interface Mobile Units

	string 1	string 2	string 3
1	cod_pedido	tempo_proc	data_entrega
2			
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31			

List Format

Settings Permissions Dimension Data Type

Data type: Integer

Format string:

Range: {1,1}..{*,*}

OK Cancel Apply

Console

Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados': real passed, string expected.

Error in method 'Models.Frame1.Method' in line 6: Unknown identifier readExcelFile

Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados': real passed, string expected.

Error in method 'Models.Frame1.Method' in line 12: Wrong data type for 'Models.Frame1.tf_dados': real passed, string expected.

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

File View Debugger Tools Window Help

Class Library

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- AttributeExplorer
- FileLink
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- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

cod_Pedido : ERROR DATA TYPE!		
integer 1	integer 2	integer 3
1	cod_Pedido : ERROR DATA TYP	tempo_proc : ERROR DATA TYP
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Method Frame1 [0.75%] tf_dados x

Console

```
Error in method :Models.Frame1.Method in line 12: Wrong data type for :Models.Frame1.tf_dados: real passed, string expected.  
Error in method :Models.Frame1.Method in line 6: Unknown identifier readExcelFile  
Error in method :Models.Frame1.Method in line 12: Wrong data type for :Models.Frame1.tf_dados: real passed, string expected.  
Error in method :Models.Frame1.Method in line 12: Wrong data type for :Models.Frame1.tf_dados: real passed, string expected.
```

Ready

14:21 17/03/2015

Há uma divergência: coluna configurada para *integer* e a primeira linha é *string*

Tecnomatix Plant Simulation Help

Ocultar Localizar Voltar Encaminhar Home Imprimir Opções

Sumário Índice Pesquisar Favoritos

Digite a(s) palavra(s) a pesquisar:

index

Listar Tópicos Exibição

Seleção tópico: Localizado: 266

Título	Lo...	Classificaç
Row Index Active	Te...	1
Column Index Active	Te...	2
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Accessing Data in ...	Te...	4
Set the Row Index	Te...	5
Find a Help Topic i...	Te...	6
Set the Column Index	Te...	7
Data Type for the C...	Te...	8
Data Type for the R...	Te...	9
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User-defined Index	Te...	11
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Fast index access	Te...	18
Unique index key	Te...	19
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sql	Te...	41
pe, []	Te...	42
createNestedList	Te...	43

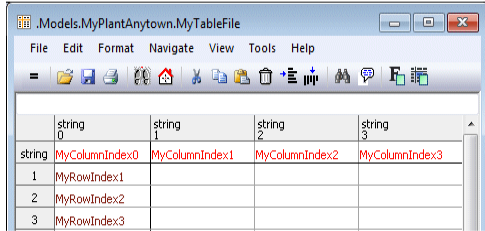
Pequisar nos resultados anteriores
 Coincidir palavras semelhantes
 Pesquisar apenas os títulos

Reference Help > Information Flow Objects > Shared Properties of Lists and Tables > Window of Lists and Tables > Menu Bar > Format Menu > Row Index Active

Row Index Active

The menu command **Row Index Active** activates and shows the row `index`, i.e., the header of the row, of the `TableFile`.

i When both column `index` and row `index` are active, the cell `[0,0]`, i.e., the cell at which column and row `index` intersect, counts as part of the `column index`, not as part of the row `index`.



To access a cell in a list or table, you can either use the **system index**, i.e., the **number** `sPlant Simulation` assigns to columns and rows to access entries in a table or you can define your own **user-defined index**, which can be **any expression** of your liking.

The advantage of a user-defined `index` over the system `index` is that assigning names to columns and rows is more meaningful than the numbers `Plant Simulation` assigns by default. The user-defined `index` orders `["urgent", "CEO"]` may tell your co-modelers more than the system `index` orders `[3, 1]`.

Both expressions access the same cell. The user-defined `index` is more meaningful and less susceptible to errors than the system `index`. Another advantage becomes clear as soon as you add an additional column or row to the table: `Plant Simulation` increases the system `index` of succeeding columns by one, while the user-defined `index` remains the same and is still valid. Accessing a user-defined `index` is slightly slower than accessing the system `index`.

When you select the data type `Integer` you have to enter a number sign `#` in front of a user-defined `index` to distinguish it from the system `index`.

Example:

```
orders["urgent", "CEO"];
vehicles["truck", #1];
switch["light", true];
plant["Chicago", .building1.drill]
```

To set the data type of the row `index`:

- Select the menu command **Row Index Active**.
- Select the column for the row `index` and select the menu command **Format > Format**. Select the data type of the row `index` from the drop-down list on the tab **Data Type** in the dialog **List Format**. Depending on the data type the list shows or hides additional text boxes or buttons. For the data types **Integer**, **Real** and **String** you can also enter a **Format string**.

To allow for quickly accessing the user-defined row `index`, select the check box **Fast index access**.

To only allow unique entries in user-defined `indexes`, depending on the data type, select the check box **Unique index key**.

Related Topics

[ShowRowIndex](#)

[RowIndex](#)

Ocultar Localizar Voltar Encaminhar Home Imprimir Opções

Sumário Índice Pesquisar Favoritos

Digite a palavra-chave para localizar:

#, number sign, user-defined index, row

#, number sign
 user-defined index, column
 user-defined index, column example
user-defined index, row
 \$, Dollar sign
 currency, preferences
 end of name
 model settings
 ALIGNMENT
 SAUTOGROUP
 SCOLOR
 SENDDATE
 \$FIT_TEXT_INTO_BAR
 \$FONT_SIZE_BAR
 \$FONT_SIZE_TABLE
 \$GRID
 \$SLAYER
 \$LINK
 \$NOCHANGEVIEW
 \$NOWORKINTERVAL
 \$NOSAVE
 \$NOSTANDALONE
 \$ORDER
 \$Patten
 \$PLAUSIBILITY_METHOD
 \$PLAUSIBILITY_AUTO
 \$PLAUSIBILITY_ORD
 \$PLAUSIBILITY_RES
 \$PROJECT_COMMENT
 \$RESOURCE
 \$SCROLLPOS
 \$STARTDATE
 \$TABLE_NAME_WIDTH
 \$TABLE_NUM_WIDTH
 \$TABLE_TITLE1
 \$TABLE_TITLE2
 \$TIME_MARK
 \$ZOOM
 %_MU
 %_P_P
 %_S_P
 %_WaExp
 %age_B
 %age_C
 %age_E
 %age_F, material flow objects
 %age_P, material flow objects
 %age_P_F
 %age_P_IP
 %age_P_SU
 %age_P_Wa
 %age_RelOccu (%_Util)
 %age_RelOccuR (%_Util)
 %age_S_F
 %age_S_IP
 %age_S_Stp
 %age_S_SU
 %age_S_Wa
 %age_Stp
 %age_SU
 %age_T_F
 %age_T_IP
 %ane T P

Exibição

The menu command **Row Index Active** activates and shows the row index, i.e., the header of the row, of the *TableFile*.

i When both column index and row index are active, the cell [0,0], i.e., the cell at which column and row index intersect, counts as part of the **column** index, not as part of the row index.

	string 0	string 1	string 2	string 3
string 1	MyRowIndex0	MyRowIndex1	MyRowIndex2	MyRowIndex3
2	MyRowIndex2			
3	MyRowIndex3			

To access a cell in a list or table, you can either use the **system index**, i.e., the **number** *sPlant Simulation* assigns to columns and rows to access entries in a table or you can define your own **user-defined index**, which can be **any expression** of your liking.

The advantage of a user-defined index over the system index is that assigning names to columns and rows is more meaningful than the numbers *Plant Simulation* assigns by default. The user-defined index `orders ["urgent", "CEO"]` may tell your co-modelers more than the system index `orders [3, 1]`.

Both expressions access the same cell. The user-defined index, is more meaningful and less susceptible to errors than the system index. Another advantage becomes clear as soon as you add an additional column or row to the table: *Plant Simulation* increases the system index of succeeding columns by one, while the user-defined index remains the same and is still valid. Accessing a user-defined index is slightly slower than accessing the system index.

When you select the data type *Integer* you have to enter a number sign # in front of a user-defined index to distinguish it from the system index.

```

Example:  orders["urgent", "CEO"];
             vehicles["truck", #1];
             switch["light", true];
             plant["Chicago", .building1.drill]
    
```

To set the data type of the row index:

- Select the menu command **Row Index Active**.
- Select the column for the row index and select the menu command **Format > Format**. Select the data type of the row index from the drop-down list on the tab **Data Type** in the dialog **List Format**. Depending on the data type the list shows or hides additional text boxes or buttons. For the data types **Integer**, **Real** and **String** you can also enter a [Format string](#).

To allow for quickly accessing the user-defined row index, select the check box [Fast index access](#).

To only allow unique entries in user-defined indexes, depending on the data type, select the check box [Unique index key](#).

Related Topics

- [ShowRowIndex](#)
- [RowIndex](#)
- [FormatStringRowIndex](#)
- [indexYDim](#)

	integer 1	integer 2	integer 3
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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30			
31			

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

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Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

Format...
 Column Index Active
 Row Index Active
 Inherit Format
 Inherit Contents
 Inherit Comment

	integer 1		integer 3
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

M Method Frame1 (175%) tf_dados x

Console

Activates/deactivates the column index

CAP: NUM SCRL

22:33
17/03/2015

Class Library

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	integer 1	integer 2	integer 3
string			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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20			
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22			
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25			
26			
27			
28			
29			
30			

Console

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

File View Debugger Tools Window Help

Class Library

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File Edit Format Navigate View Tools Help

	integer 1	integer 2	integer 3
string			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

M Method Frame1 (175%) tt_dados x

Console

Inserts the contents of the application clipboard at the insertion point

PT 22:35 17/03/2015

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

cod_pedido

	integer 1	integer 2	integer 3
string	cod_pedido	tempo_proc	data_entrega
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

M Method Frame1 (175%) tt_dados x

Console

Ready

CAP NUM SCRL 22:36 17/03/2015

```
1 is
2   linhas :
3   i :integ
4 do
5   --import
6   tf_entrada;
7
8   --trataos dados
9   linhas := tf_entrada.YDim - 2;
10
11 for i := 1 to linhas loop
12   tf_dados[1,i] := str_to_Num(tf_entrada[1,i+2]); --cod_Pedido
13   tf_dados[2,i] := str_to_Num(tf_entrada[2,i+2]); --tempo_proc (min)
14   tf_dados[3,i] := str_to_Num(tf_entrada[3,i+2]); --data_entrega
15 next;
16
17 end;
18
```

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Add to Favorites

Material Flow Resources Information Flow User Interface Mobile Units

File Edit Format Navigate View Tools Help

	integer 1	integer 2	integer 3
string	cod_pedido	tempo_proc	data_entrega
1	1	27	0
2	2	16	4
3	3	20	5
4	4	19	0
5	5	52	1
6	6	50	5
7	7	37	6
8	8	19	3
9	9	48	0
10	10	31	5
11	11	42	0
12	12	42	3
13	13	40	2
14	14	51	5
15	15	13	1
16	16	38	4
17	17	37	5
18	18	43	0
19	19	40	5
20	20	38	5
21	21	20	0
22	22	30	5
23	23	60	1
24	24	17	1
25	25	36	1
26	26	55	2
27	27	42	5
28	28	5	6
29	29	15	2
30	30	49	0

M Method Frame1 (175%) tf_datos x

Console

Duplicate & Derive

Definições

	string 2	string 3	string 4	string 5	string 6	string 7	string 8	string 9	string 10	string 11
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

Definições

1) *Derive*

O comando *Derive* do *menu* deriva o objeto selecionado ou modelo e cria uma instância da classe ativa. Qualquer mudança realizada na classe objeto é imediatamente refletida em sua **instância** derivada, quando o *Plant Simulation* estabelece uma relação herdada (*inheritance relation*). Isto economiza tempo e eventuais problemas se você quiser um número de objetos exatamente iguais. Em vez de selecionar *Derive*, você pode pressionar (*hold down*) *Ctrl* e *Shift*, e dar um *click* no objeto que você deseja para derivar uma instância com o botão esquerdo do *mouse*. Desse modo, mantendo pressionado o botão do *mouse*, arraste o objeto para o local desejado, por exemplo em outra pasta na biblioteca de classes, e libere ambas as teclas e o botão do *mouse*.

2) *Duplicate*

O comando *Duplicate* do *menu* copia os objetos selecionados e cria uma nova classe. Mudanças realizadas no objeto original não são repassadas sobre a cópia que você criou. Em vez de selecionar *Duplicate*, você pode acionar *Ctrl* e clicar no objeto que você deseja duplicar com o botão esquerdo do *mouse*. Então, acione o botão do *mouse*, arraste a cópia para o local de sua escolha, o qual como uma regra deve ser em outra pasta, na biblioteca de classes, e libere a tecla *Ctrl* e o botão do *mouse*.

MÉTODOS

APLICADOS

2º Método

2º Método

CRIAR PEDIDO DENTRO DO *SORTER*

Método para criar pedidos dentro do *Sorter*

1) Método – **mtd_Criar Pedidos** (Criar Pedidos dentro do *Sorter*)

is

pedido : object;

i :integer;

← Variáveis

do

Fazer para todos os pedidos ⇒ rodar a lista

for i:=1 to tf_dados.YDim loop

pedido := .MUs.mu_pedido.create(Sorter);

pedido.cod_pedido := tf_dados[1,i];

pedido.tempo_proc := tf_dados[2,i];

pedido.data_entrega := tf_dados[3,i];

next;

Sorter.sort;

end;

Pasta → endereço → Mus.mu_pedido

Create → cria

Sorter → local de criação – retorna um ponteiro para onde vai ser criado

Considerações - Método

- 1) *Sorter* – reagrupa
- 2) *Order* \Rightarrow *ascending* – *on access* – se organiza
- 3) *Sort criterion* – *Method*
- 4) *MU property* \Rightarrow *user defined* – *attribute* – `cod_pedido`
- 5) *Start sorting* – qual é a função? – Sim – *Talk: sort*
é o mesmo que apertar o botão

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

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Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

tf_entrada

tf_datos

Frame1 (175%) x

Console

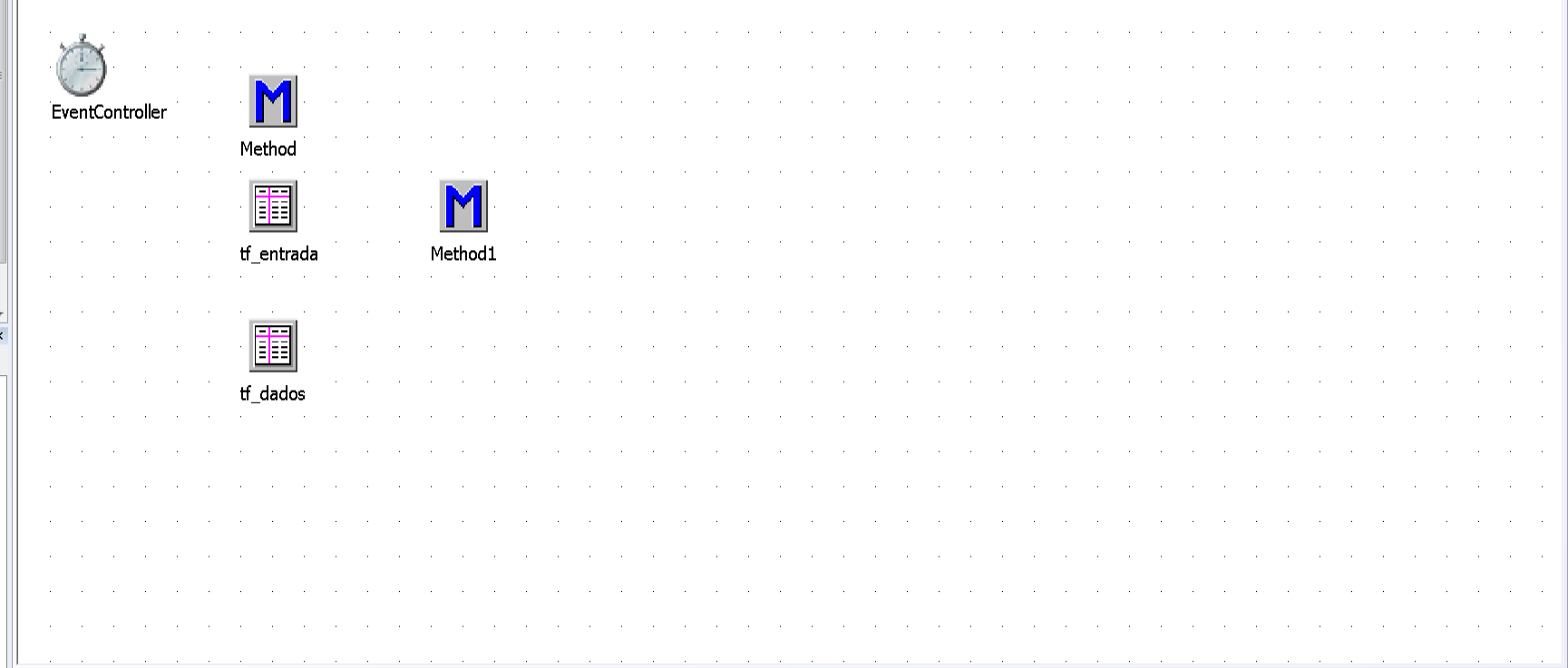


Class Library

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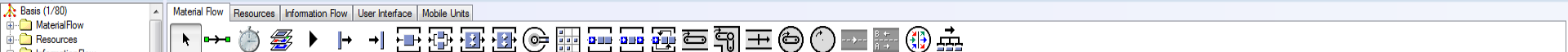


Favorites

Add to Favorites

Frame1 (175%) x

Console



The main workspace is a grid with several icons: a clock icon labeled 'EventController', a blue 'M' icon labeled 'Method', a table icon labeled 'tf_entrada', and another table icon labeled 'tf_datos'. A context menu is open over the 'Method' icon, listing actions like Run, Open, Delete, Rename... (F2), Open Origin (Home), Open Class (Alt+Home), Show Attributes and Methods... (F8), Arrange Icons, Edit Icons... (Ctrl+I), Edit Display Panel..., Previous Icon (Ctrl+Page up), and Next Icon (Ctrl+Page down).





Class Library

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Edit Navigate Objects Icons View Tools Help

EventController

Method

Method1

tf_entrada

tf_dados

Rename

Name: mtd_CriarPedido

Label: Pedidos Firmados

OK Cancel

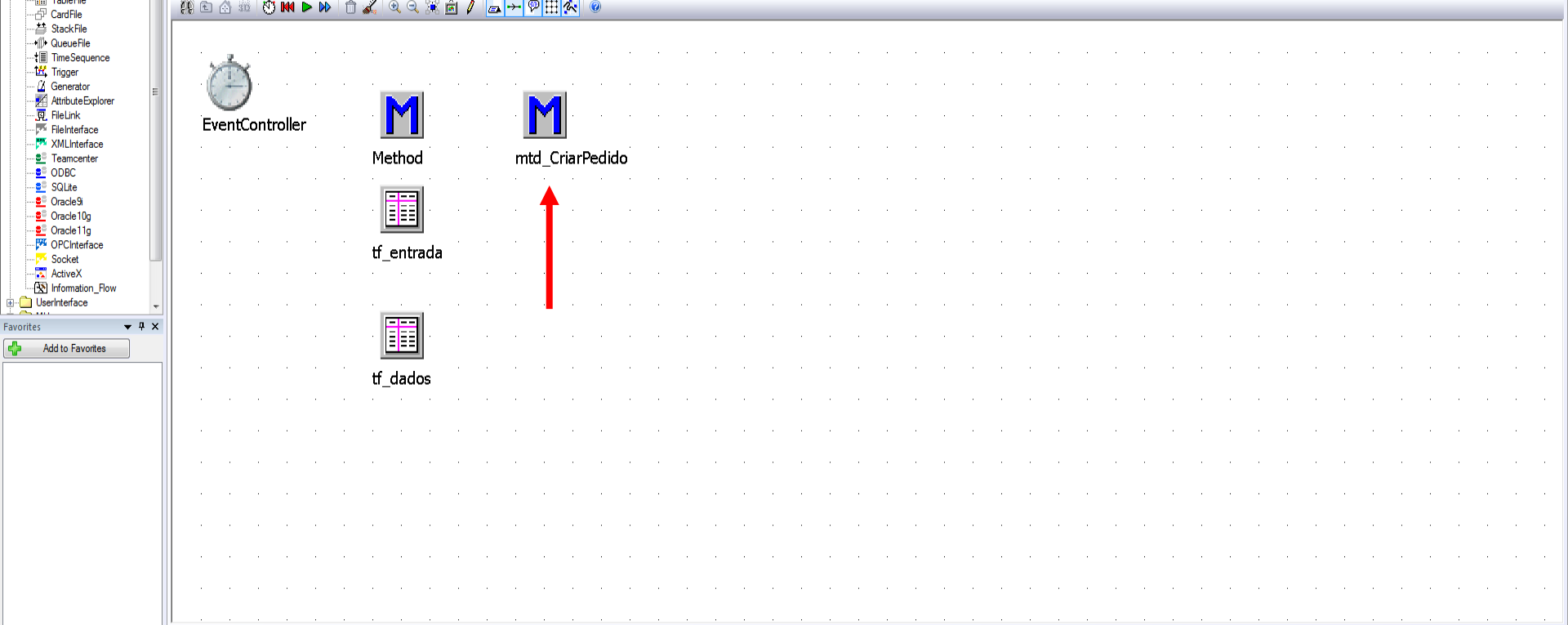
Favorites

Add to Favorites

Frame1 (175%) x

Console





File View Debugger Tools Window Help

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```
File Edit Navigate Run Template View Tools Help
```

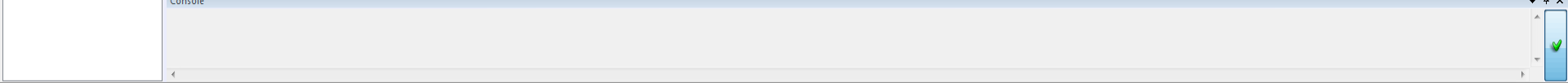
```
1 is  
2 do  
3 end;
```

Frame1 (175%) M mtd_CriarPedido x

Console



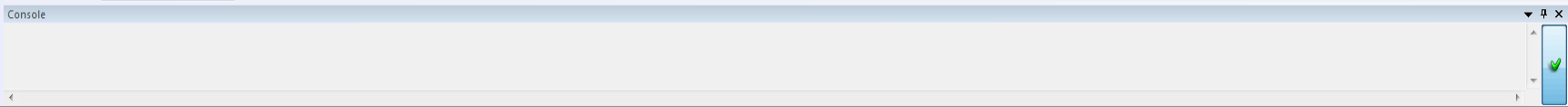
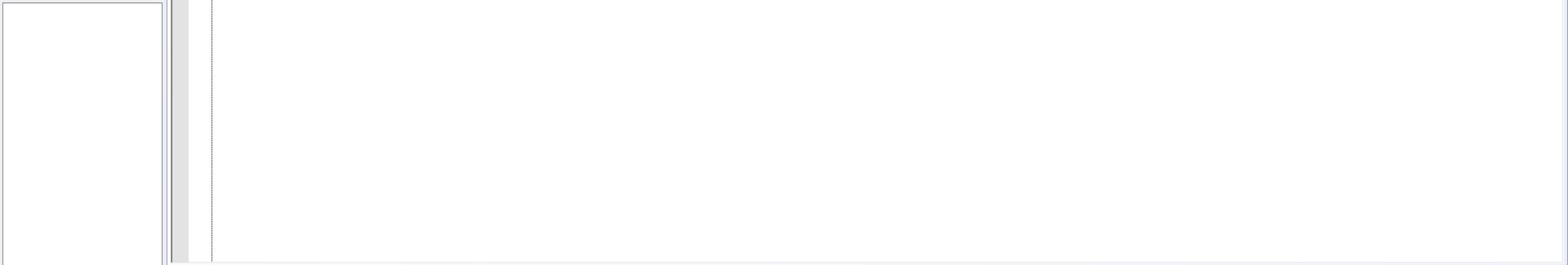
```
1  is
2      pedido : object;
3      i :integer;
4  do
5
6      for i:=1 to tf_dados.YDim loop
7          pedido := .MUS.mu_pedido.create(Sorter);
8          pedido.cod_pedido := tf_dados[1,i];
9          pedido.tempo_proc := tf_dados[2,i];
10         pedido.data_entrega := tf_dados[3,i];
11     next;
12
13     Sorter.sort;
14
15 end;
16
```





```
1 is
2   pedido : object;
3   i :integer;
4 do
5
6   for i:=1 to tf_dados.YDim loop
7     pedido := .MUS.mu_pedido.create(Sorter);
8     pedido.cod_pedido := tf_dados[1,i];
9     pedido.tempo_proc := tf_dados[2,i];
10    pedido.data_entrega := tf_dados[3,i];
11  next;
12
13  Sorter.sort;
14
15 end;
16
```

Run (F5)
Executes the Method



- MaterialFlow
 - Connector
 - EventController
 - Frame
 - Interface
 - Source
 - Drain
 - SingleProc
 - ParallelProc
 - Assembly
 - DismantleStation
 - PickAndPlace
 - Store
 - PlaceBuffer
 - Buffer
 - Sorter
 - Line
 - AngularConverter
 - Converter
 - Turntable
 - Turnplate
 - Track
 - TwoLaneTrack
 - FlowControl
 - Cycle
 - Material_Flow
- Resources



```

1  is
2  pedido : object;
3  i : integer;
4  do
5
6  for i=1 to tf_dados.Ydin loop
7    pedido := .MUs.mu_pedido.create(Sorter);
8    pedido.cod_pedido := tf_dados[1,i];
9    pedido.tempo_proc := tf_dados[2,i];
10   pedido.data_entrega := tf_dados[3,i];
11  next;
12
13  Sorter.sort;
14
15 end;

```

✓ Apply Changes (F7)
Applies changes to the source code

Salvar o código

Favorites
Add to Favorites

Console
Error in method '.Models.Frame1.mtd_CriarPedido' in line 7: Unknown identifier mu_pedido

Applies changes to the source code

CAP NUM SCRL

The screenshot shows the Tecnomatix Plant Simulation 11 interface. The main window displays a code editor for the method `Models.Frame1.mtd_CriarPedido`. The code is as follows:

```
1 is
2 pedido : object;
3 i :integer;
4
5 do
6   for i:=1 to tf_dados.YDim loop
7     pedido := .MUs.mu_pedido.create(Sorter);
8     pedido.cod_pedido := tf_dados[1,i];
9     pedido.tempo_proc := tf_dados[2,i];
10    pedido.data_entrega := tf_dados[3,i];
11    next;
12
13    Sorter.sort;
14
15 end;
16
```

A debugger window is open, showing the same code with line 7 highlighted in red. Below the code, the debugger shows the following variables:

Variable	Value
@	VOID
?	VOID
pedido	VOID
i	1

The console at the bottom displays the error message: "Error in method 'Models.Frame1.mtd_CriarPedido' in line 7: Unknown identifier mu_pedido".

Falta inserir o *Sorter*

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

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Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CriarPedido

tf_entrada

tf_dados

M mtd_CriarPedido Frame1 (175%) x

Console

Error in method 'Models.Frame1.mtd_CriarPedido' in line 7: Unknown identifier mu_pedido

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

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Material Flow | Resources | Information Flow | User Interface | Mobile Units

Edit | Navigate | Objects | Icons | View | Tools | Help

EventController

Method

tf_entrada

tf_dados

mtd_CriarPedido

Sorter

Console

Error in method 'Models.Frame1.mtd_CriarPedido' in line 7: Unknown identifier mu_pedido

Aula 01.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CiarPedido

Sorter

tf_entrada

tf_dados

Capacity = - 1 (infinito)

Quando selecionado quebra a hierarquia

Console

Error in method 'Models.Frame1.mtd_CiarPedido' in line 7: Unknown identifier mu_pedido

Class Library

- Basis (2/80)
- MaterialFlow
 - Connector
 - EventController
 - Frame
 - Interface
 - Source
 - Drain
 - SingleProc
 - ParallelProc
 - Assembly
 - DismantleStation
 - PickAndPlace
 - Store
 - PlaceBuffer
 - Buffer
 - Sorter
 - Line
 - AngularConverter
 - Converter
 - Turntable
 - Turnplate
 - Track
 - TwoLaneTrack
 - FlowControl
 - Cycle
 - Material_Flow
 - Resources

Favorites

- Add to Favorites

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CriarPedido

tf_entrada

Sorter

tf_dados

.Models.Frame1.Sorter

Navigate View Tools Help

Name: Sorter Failed Entrance locked

Label: Planned Exit locked

Statistics		Energy		User-defined Attributes	
Attributes	Times	Failures	Controls	Exit Strategy	
Capacity:	-1				
Order:	Descending				
Time of Sort:	On Access				
Sort criterion:	MU-Property			User-defined Attribute	
				tempo_prod	

Start Sorting

OK Cancel Apply

Frame1 (175%) x

Console

mu_entidade

Criar entidade pedidos

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

Class Library

- Basis (2/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs

Material Controller

Method mtd_CriarPedido

tf_entrada Sorter

tf_dados

Console

Init ...

Reset ...

Creates a class which inherits from this class

PT 20:55 22/03/2015

- Open
- Open in 3D
- Duplicate
- Derive
- Cut Inheritance
- Delete
- Rename
- Show Origin
- Show Inheritance
- Show MU Statistics
- Show Attributes and Methods
- Edit Icons...
- Print...
- Find Object...
- Save Object As...

EventController

Method

mtd_CriarPedido

tf_entrada

Sorter

tf_dados

Frame1 (175%) x

Console

Init ...

Reset ...

The main workspace area features a light gray grid background. On the left side, there is a vertical label "Controller". In the center and right, several icons are placed on the grid:

- Two blue square icons with a white letter "M", labeled "Method" and "mtd_CriarPedido".
- A purple and white icon labeled "tf_entrada".
- A blue and white icon labeled "Sorter".
- A purple and white icon labeled "tf_dados".

- Open
- Open in 3D
- Duplicate
- Derive
- Cut Inheritance
- Delete
- Rename**
- Show Origin
- Show Inheritance
- Show MU Statistics
- Show Attributes and Methods
- Edit Icons...
- Print...
- Find Object...
- Save Object As...

Frame1 (175%) x

Console

Init ...

Reset ...

File View Debugger Tools Window Help

Class Library

- Basis (2/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Entity
- Container
- Transporter
- Mobile_Units
- Entity1
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CriarPedido

tf_entrada

Sorter

tf_dados

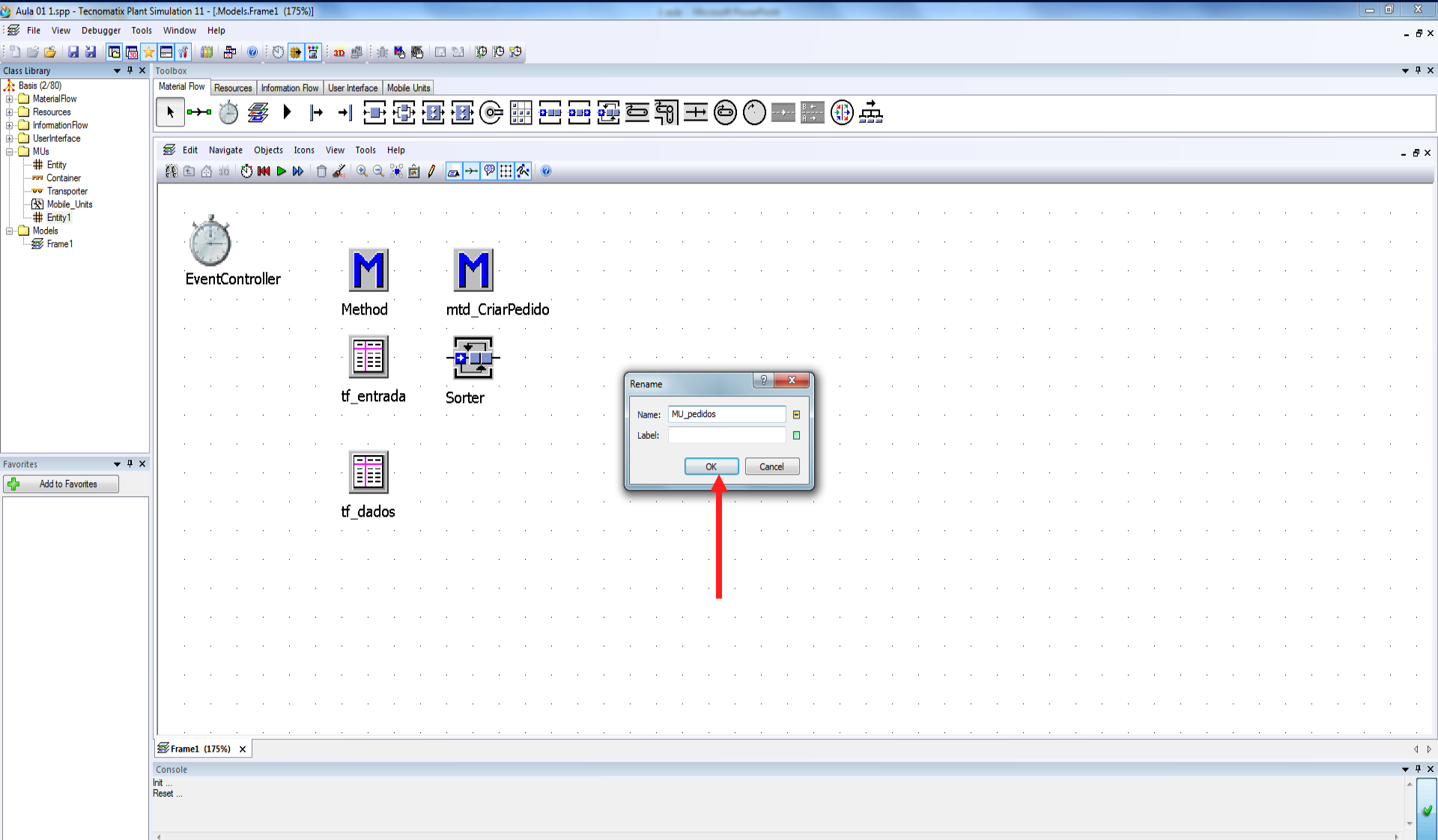
Console

Init ...

Reset ...

Ready

PT 20:58 22/03/2015





Class Library

- Basis (2/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Entity
- Container
 - Transporter
 - Mobile_Units
 - MU_pedidos
- Models
- Frame1

Material Flow



Edit Navigate Objects Icons View Tools Help



EventController



Method



mtd_CriarPedido



tf_entrada



Sorter



tf_dados

Favorites

Add to Favorites

Frame1 (175%) x

Console

Init ...
Reset ...



Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

- Basis (2/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Entity
- Container
- Transporter
- Mobile_Units
- MU_pedidos
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

tf_entrada

tf_dados

mtd_CriarPedido

Sorter

Frame1 (175%) x

Console

Init ...

Reset ...

PT 21:02 22/03/2015

File View Debugger Tools Window Help

Class Library

- Basis (2/80)
 - MaterialFlow
 - Connector
 - EventController
 - Frame
 - Interface
 - Source
 - Drain
 - SingleProc
 - ParallelProc
 - Assembly
 - DismantleStation
 - PickAndPlace
 - Store
 - PlaceBuffer
 - Buffer
 - Sorter
 - Line
 - AngularConverter
 - Converter
 - Tumtable
 - Turnplate
 - Track
 - TwoLaneTrack
 - FlowControl
 - Cycle
 - Material_Flow
 - Resources

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CriarPedido

tf_entrada

Sorter

tf_dados

Frame1 (175%) x

Console

Init ...

Reset ...

File View Debugger Tools Window Help

Class Library

- Basis (4/80)
 - MaterialFlow
 - Connector
 - EventController
 - Frame
 - Interface
 - Source
 - Drain
 - SingleProc
 - ParallelProc
 - Assembly
 - DismantleStation
 - PickAndPlace
 - Store
 - PlaceBuffer
 - Buffer
 - Sorter
 - Line
 - AngularConverter
 - Converter
 - Tumtable
 - Tumplate
 - Track
 - TwoLaneTrack
 - FlowControl
 - Cycle
 - Material_Flow
 - Resources

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd_CriarPedido

tf_entrada

Sorter

SingleProc

Drain

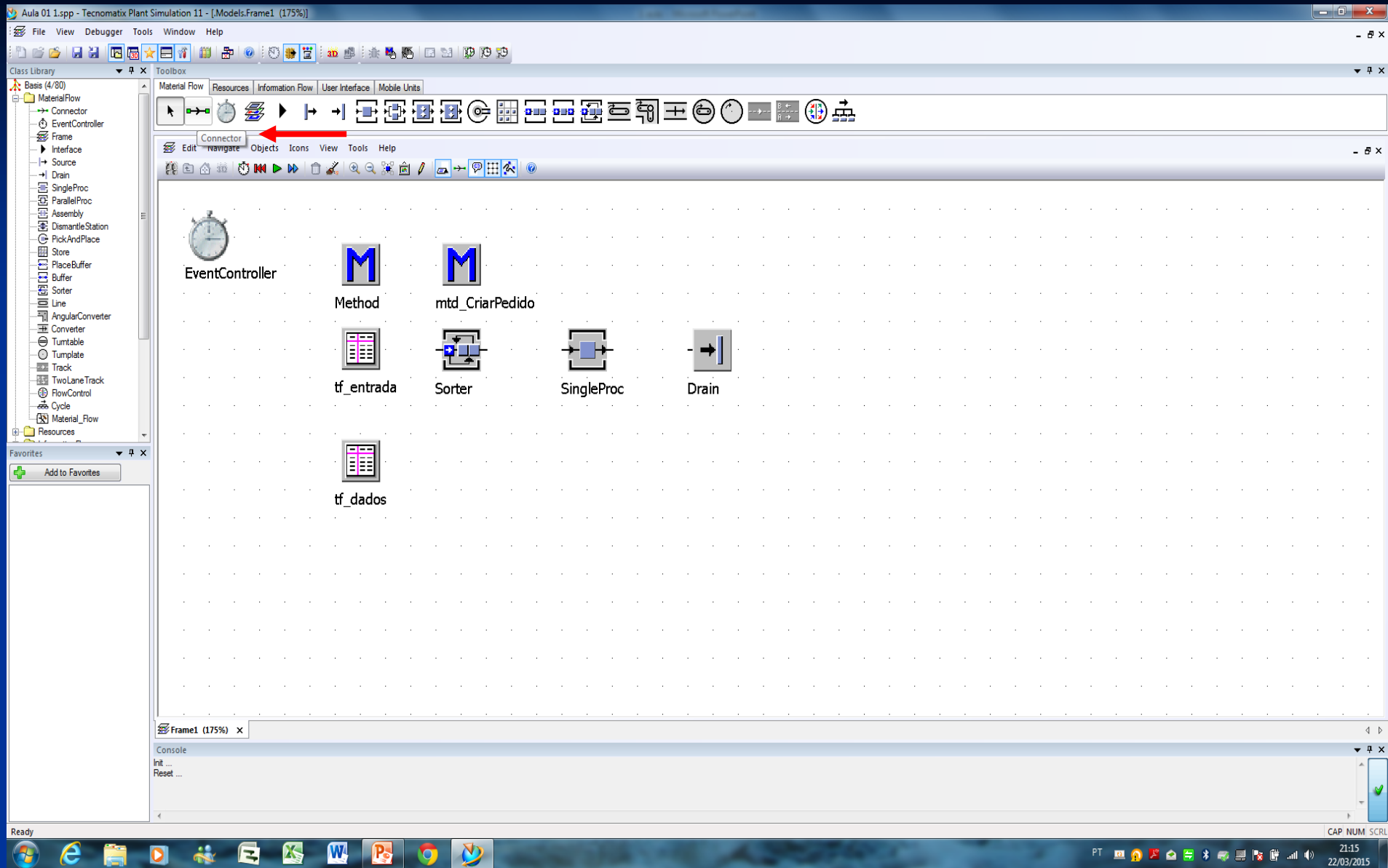
tf_dados

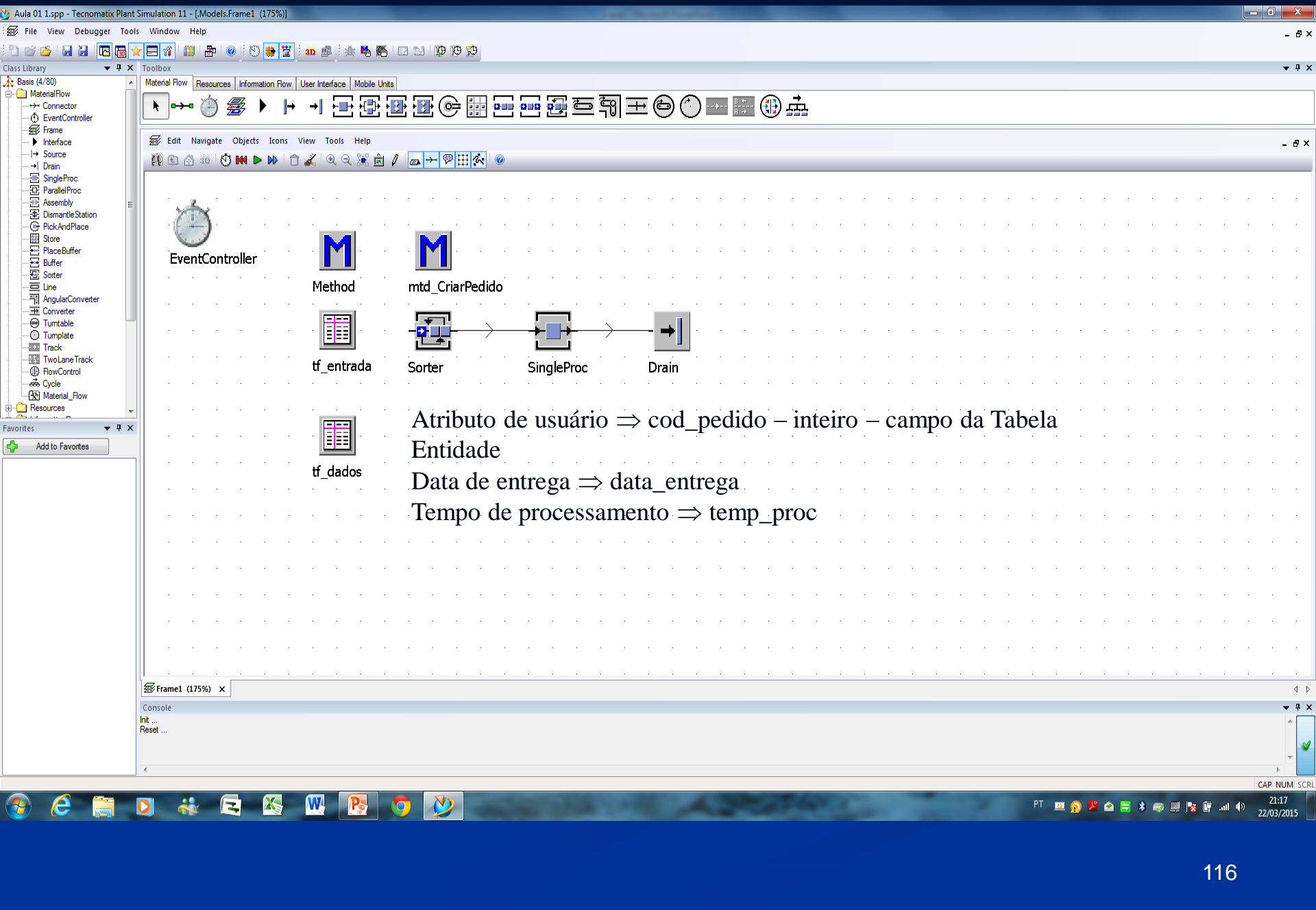
Frame1 (175%) x

Console

Init ...

Reset ...





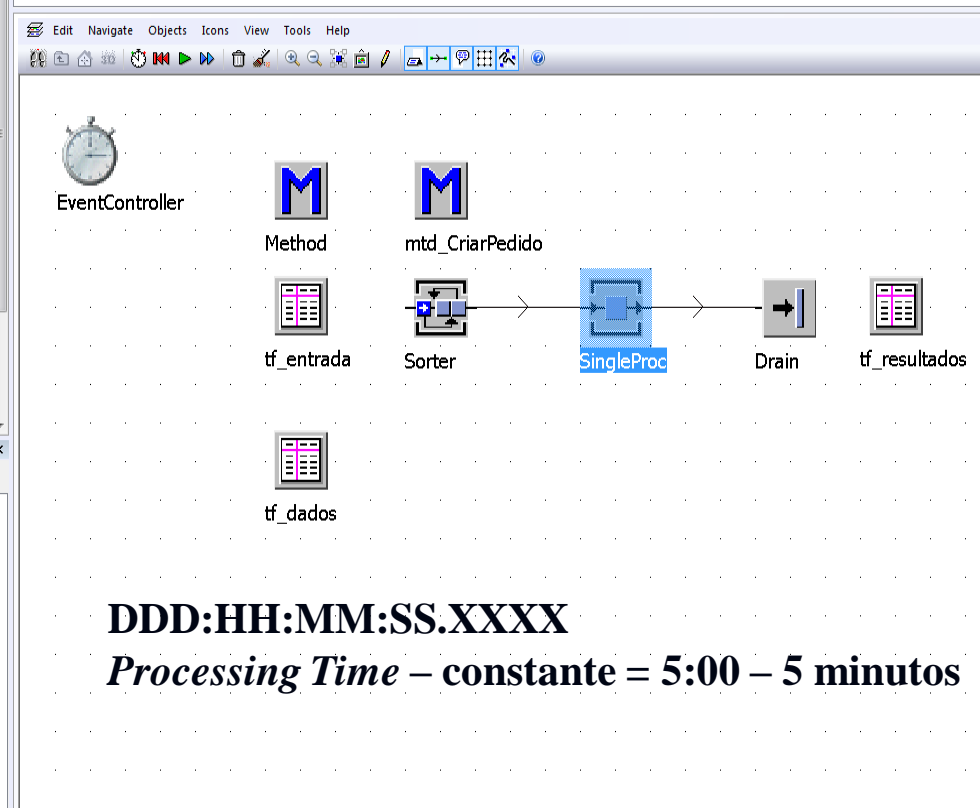
SingleProc

Tempo de processamento

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units



DDD:HH:MM:SS.XXXX
Processing Time – constante = 5:00 – 5 minutos

.Models.Frame1.SingleProc

SingleProc

Processing time: Const 5:00

Set-up time: Const 0

Recovery time: Const 0

Recovery time starts: When part enters

Cycle time: Const 0

OK Cancel Apply

Objects & Methods

Verificação

Objetos – disparam o método

Control – quais métodos devem ser executados e quando devem ser executados

Considerações

Methods of All Objects

- 1) Todos os objetos acionam os métodos descritos. Sub-capítulos sobre a lista de métodos adicionais que se aplicam a esses objetos.
- 2) Um método consulta a informação de um objeto e retorna um valor. O método calcula um valor e dá início a uma ou algumas ações que controlam o comportamento do objeto. Os métodos são agrupados de acordo com as suas funções.

Um exemplo de uma linha de *Syntax* de um método individual:

Syntax: <Path>.openFile(FileName:<string> [,NoDebugger:<boolean>]);

- A expressão <Path> designa o caminho do objeto para o qual o método se aplica.
- O tipo de dado dos parâmetros é listado entre parênteses.
- Os sinais menor < e maior do que >. A expressão (Parameter:<real>), por exemplo, designa um parâmetro de tipo de dado real. A expressão (byRef X:<integer>), por exemplo, designa uma variável do tipo de dado inteiro.

- 3) Em vez de um valor constante, você também pode usar uma variável do tipo requerido ou um método que retornar o tipo de dado requerido.
- 4) Parâmetros adicionais são listados dentro dos colchetes (*square brackets*). A expressão [,Parameter:<boolean>], por exemplo, significa que você pode, mas não tem de entrar o parâmetro *boolean*.

* Torna segura entrar com os parênteses das expressões dentro dos parênteses (...). Nenhuma entrada deles pode conduzir a resultados inesperados e abrir o *Debugger*.

The screenshot displays the Tecnomatix Plant Simulation 11 interface. The main workspace shows a process flow diagram with the following components: EventController, Method, mtd_CriarPedido, SingleProc (highlighted in blue), Drain, tf_dados, tf_entrada, and tf_resultados. A configuration dialog box for the 'SingleProc' object is open, showing the 'Processing time' field set to '5:00'. A red arrow points from this field to the text 'Click na tecla F8' below the dialog. The dialog also includes fields for 'Set-up time', 'Recovery time', and 'Cycle time', all set to '0'. The 'Recovery time starts' dropdown is set to 'When part enters'. The dialog has 'OK', 'Cancel', and 'Apply' buttons at the bottom.

Click na tecla F8

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method

mtd

tf_entrada

tf_datos

Properties window for .Models.Frame1.SingleProc

Name	Value	W.	Signature
addObserver			(AttributeName:string...
AssignedLockoutZones	[]		array
AssignedWorkplaces	[]		[(Workplaces:table)] : ...
attributeWatchable			(AttributeName:string...
AutomaticSetup	true	i *	boolean
Availability	100	ni	real
Capacity	1	i *	integer
ChangePathCtrl	VOID	i	method
ChildNo			(No:integer) : object
Class	.MaterialFlow....		object
closeDialog			([ApplyChanges:boole...
closeImg			(ApplyChanges:boole...
connectAutomatically			boolean
ConnectCtrl	VOID	i	method
ConstructorCtrl	VOID	i	method
Cont	VOID	*	object
ContentsList	[]		[(Contents:table)] : any
Coordinate3D	[2, 9, 0]	ni	array
copyToClipboard			
createAttr			(AttrName:string, Dat...
createIcon			([IconName:string, Wi...
CreateIn3D	true	i	boolean

Configuration dialog for .Models.Frame1.SingleProc

Name: SingleProc

Label:

Processing time: Const 5:00

Set-up time: Const 0

Recovery time: Const 0

Recovery time starts: When part enters

Cycle time: Const 0

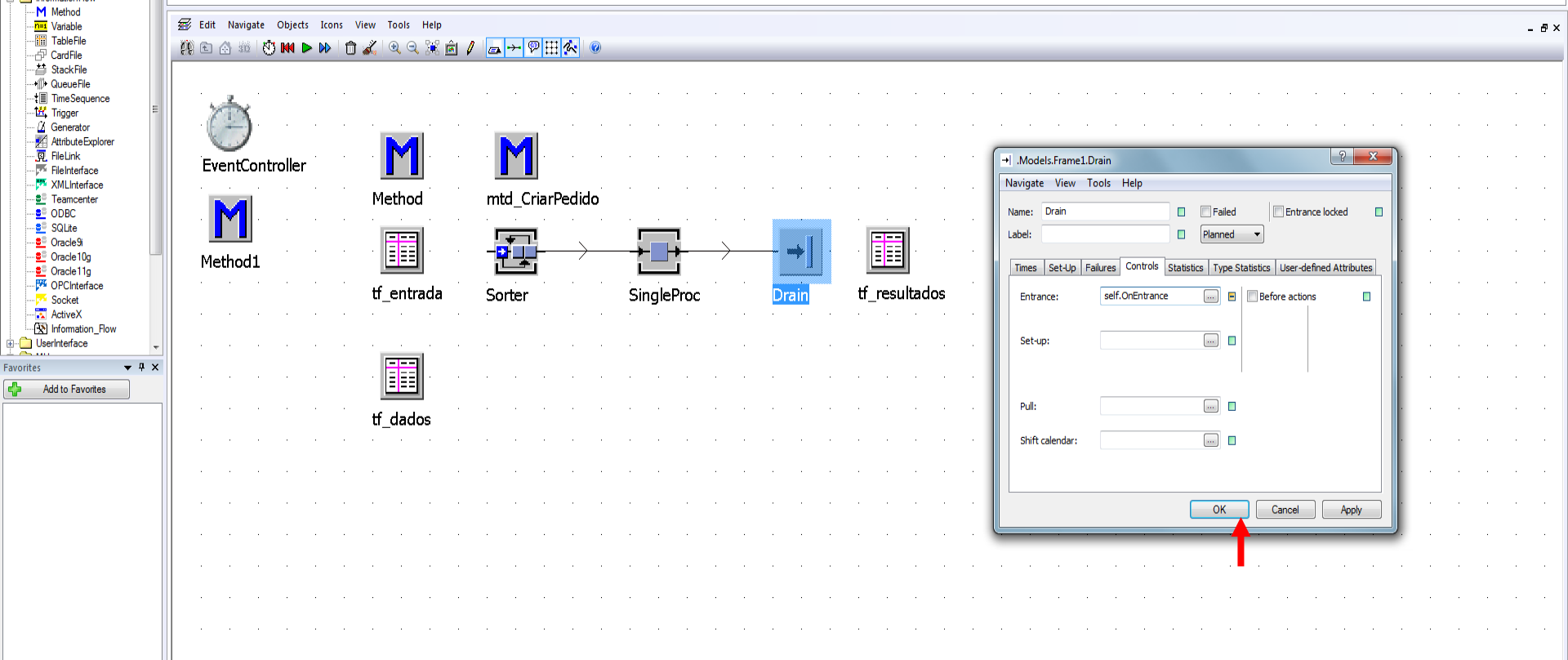
OK Cancel Apply

Frame1 (175%) x

Console

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



Properties dialog for **.Models.Frame1.Drain**

Attributes:

- Name: Drain
- Label:
- Failed:
- Entrance locked:
- Planned:

Configuration tabs: Times, Set-Up, Failures, Controls, Statistics, Type Statistics, User-defined Attributes

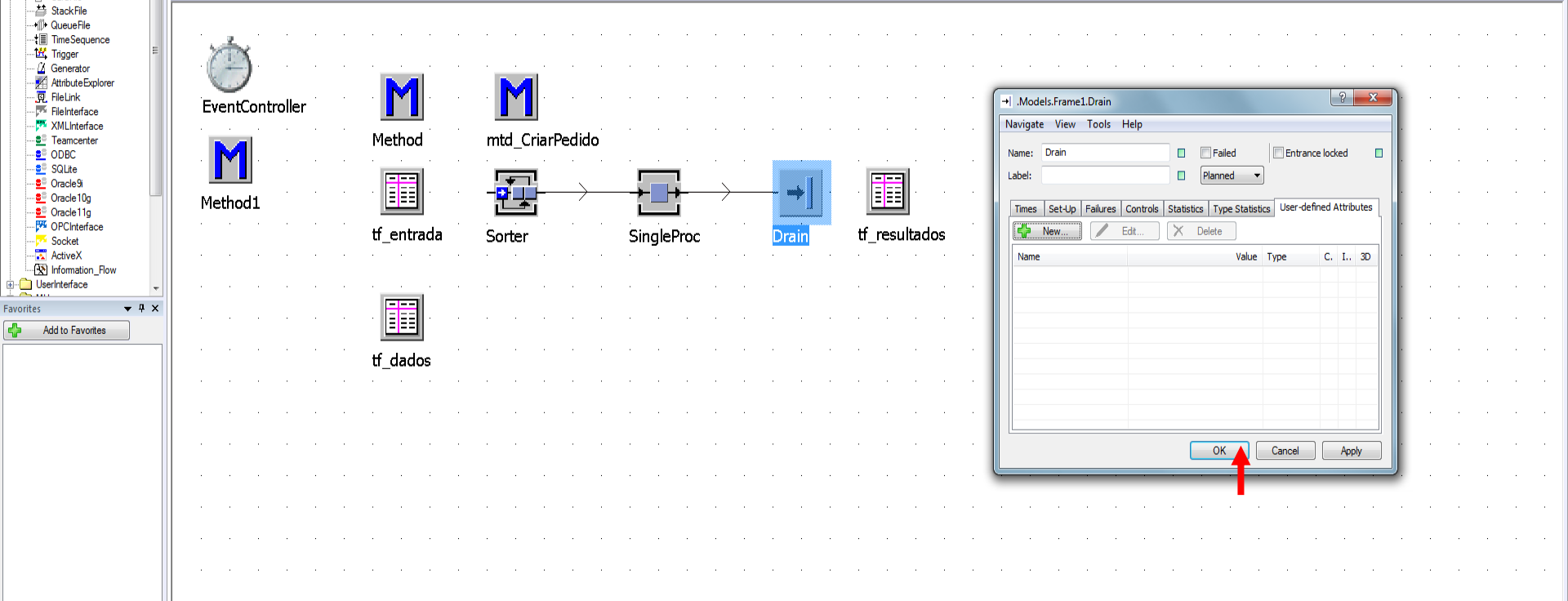
Configuration fields:

- Entrance: self.OnEntrance Before actions
- Set-up:
- Pull:
- Shift calendar:

Buttons: OK, Cancel, Apply

Frame1 (175%) x

Console



.Models.Frame1.Drain

Navigate View Tools Help

Name: Drain Failed Entrance locked
Label: Planned

Times Set-Up Failures Controls Statistics Type Statistics User-defined Attributes

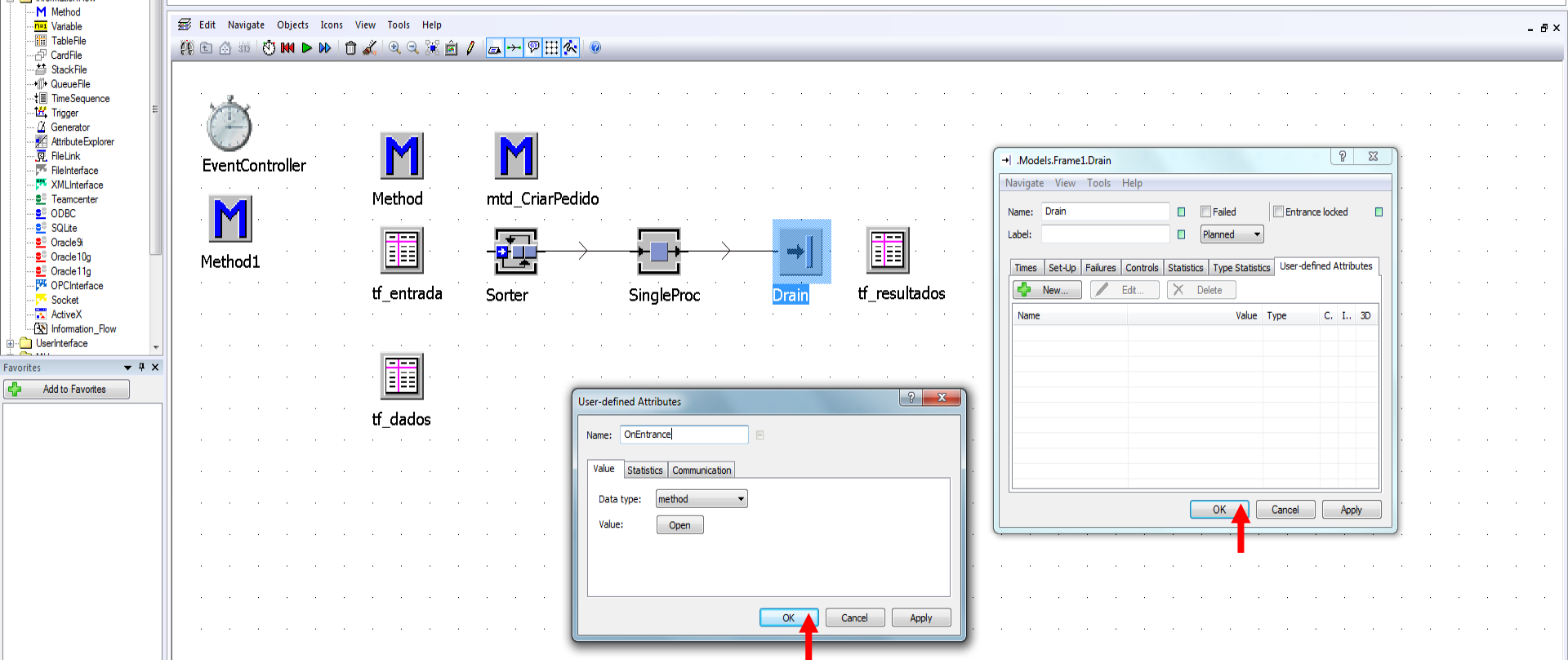
New... Edit... Delete

Name	Value	Type	C.	I.	3D

OK Cancel Apply

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

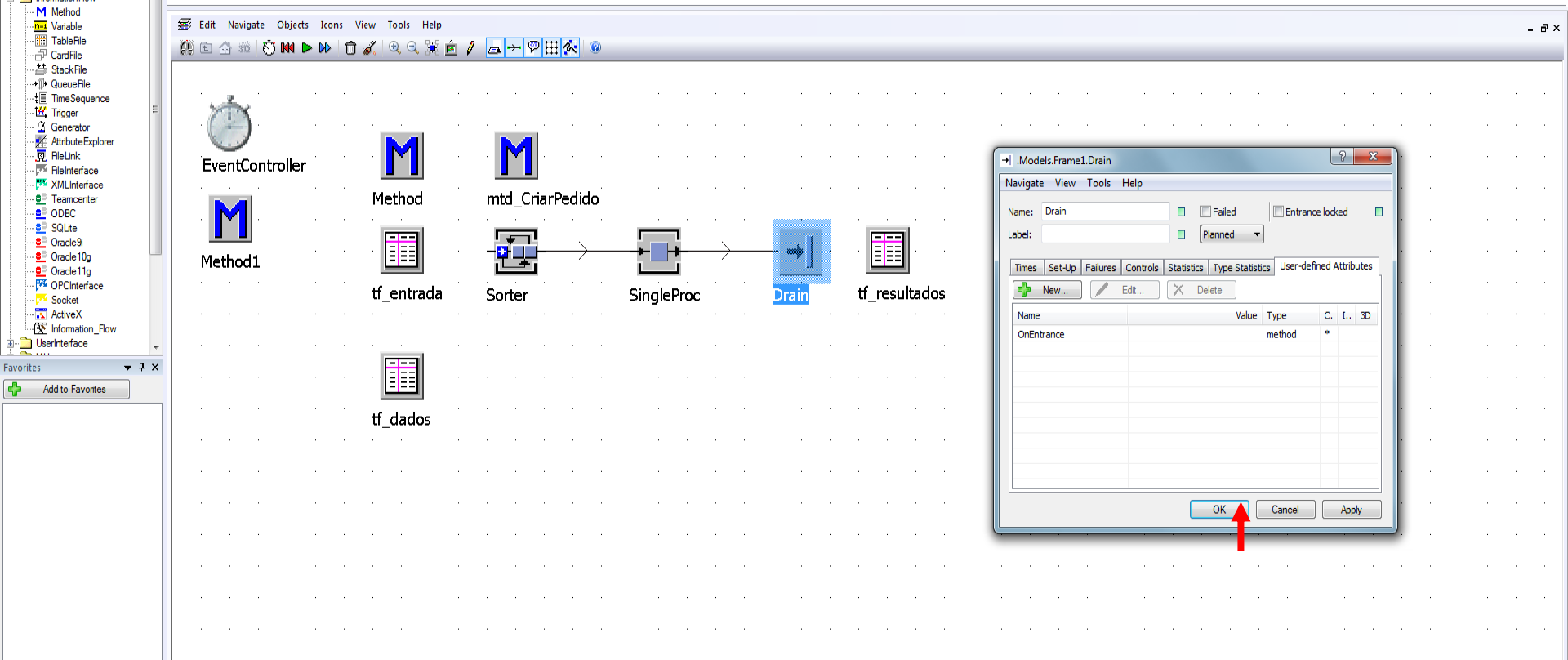


Frame1 (175%) x

Console

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



Properties dialog for .Models.Frame1.Drain

Name: Drain Failed Entrance locked

Label: Planned

Name	Value	Type	C.	I.	3D
OnEntrance		method	*		

OK Cancel Apply



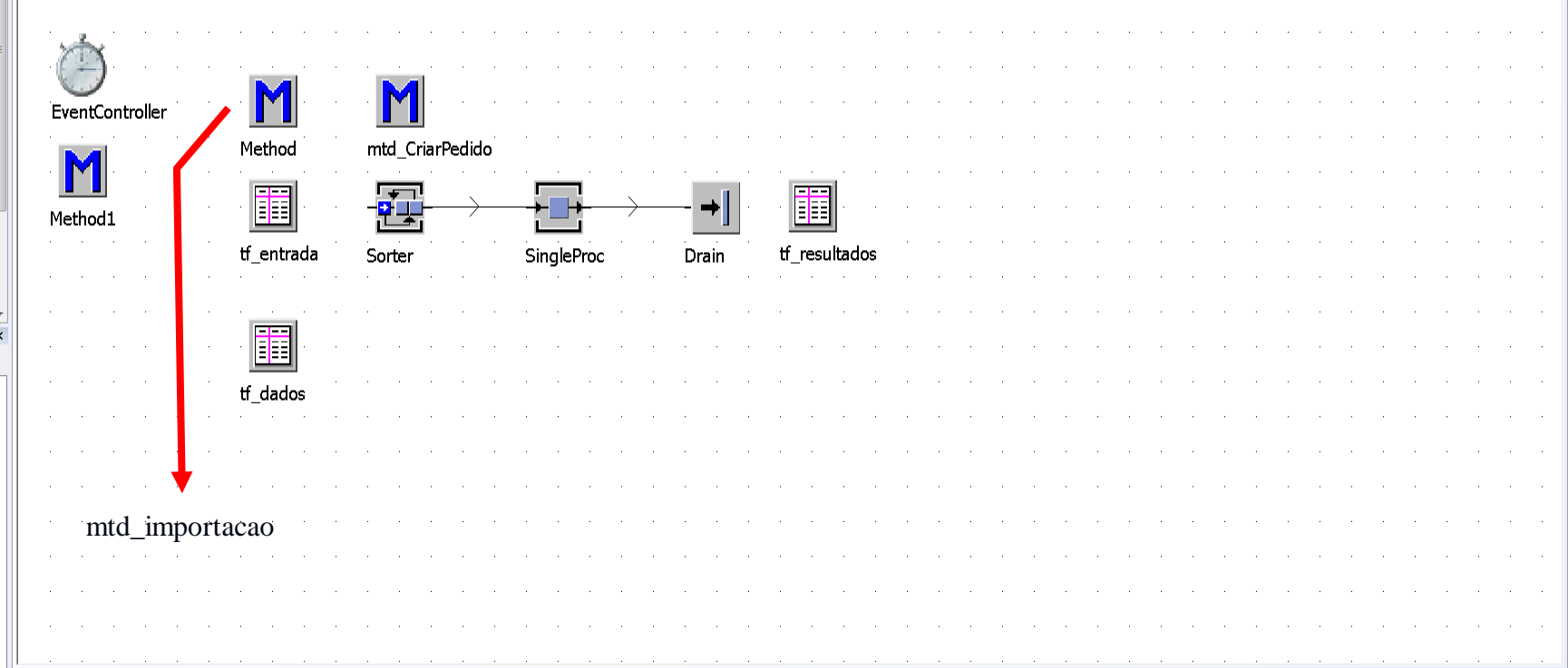
Class Library

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- Method
- Variable
- TableFile
- CardFile
- StackFile
- QueueFile
- TimeSequence
- Trigger
- Generator
- AttributeExplorer
- FileLink
- FileInterface
- XMLInterface
- Teamcenter
- ODBC
- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow

Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help



Favorites

Add to Favorites

Frame1 (175%) x

Console

Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao

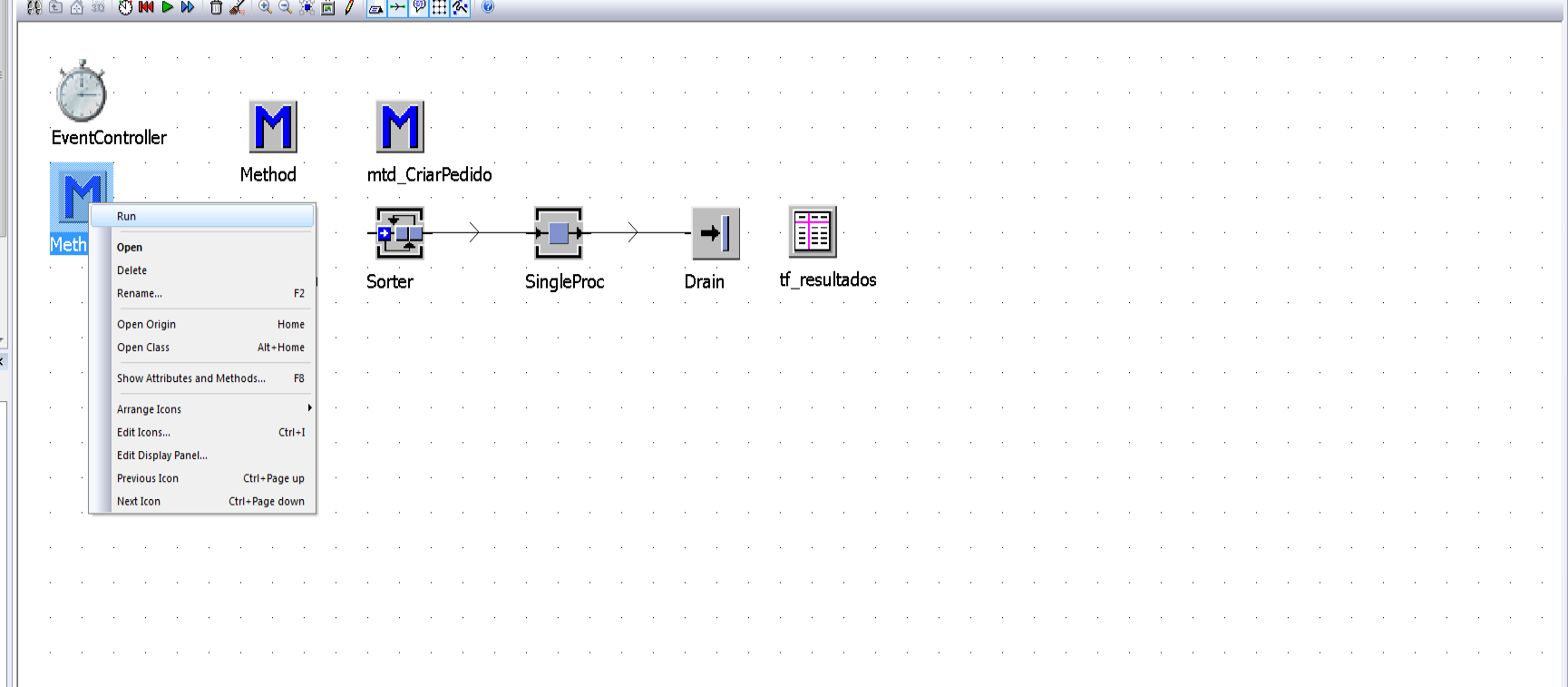


Class Library

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- Method
- Variable
- TableFile
- CardFile
- StackFile
- QueueFile
- TimeSequence
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- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help



Favorites

Add to Favorites

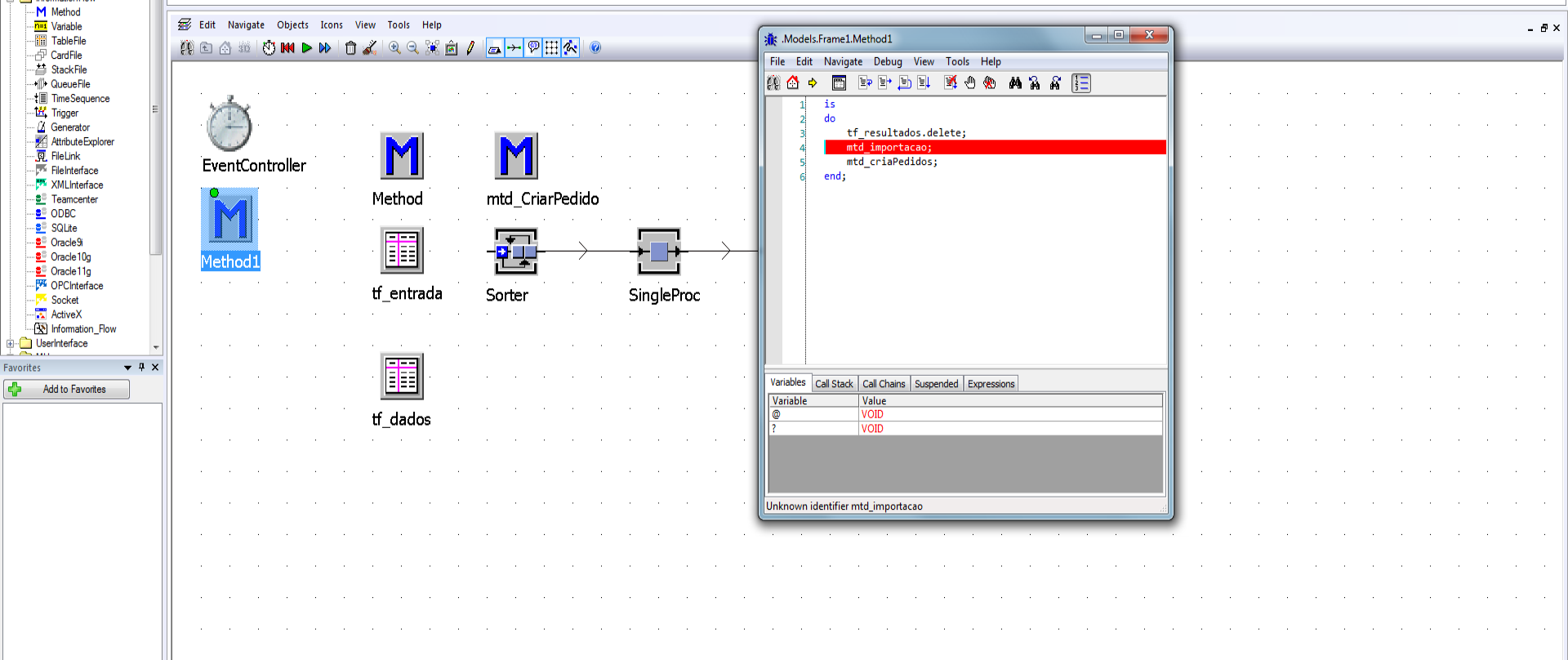
Frame1 (175%) x

Console

Init ...
Reset ...
Init ...
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



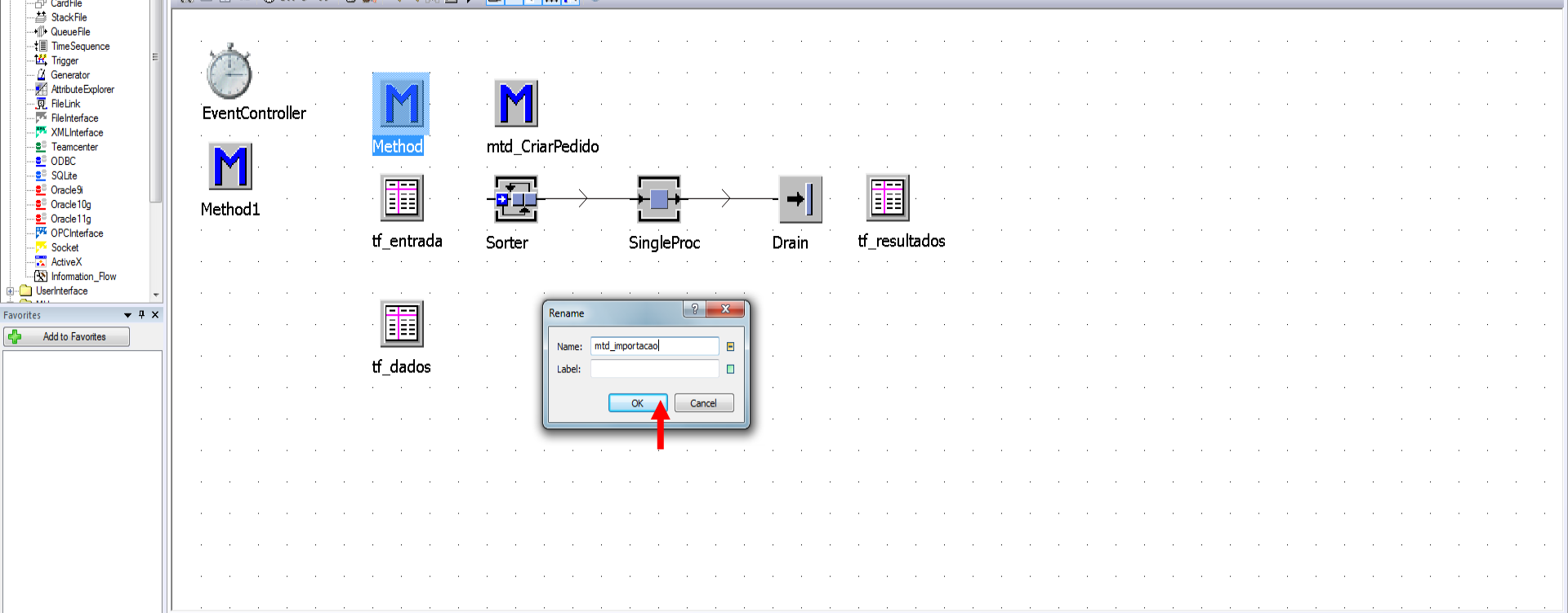
```
File Edit Navigate Debug View Tools Help  
1 is  
2 do  
3   tf_resultados.delete;  
4   mtd_importacao;  
5   mtd_criarPedidos;  
6 end;
```

Variable	Value
@	VOID
?	VOID

Unknown identifier mtd_importacao

Frame1 (175%) x

Console
Reset ...
Init ...
Error in method '.Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method '.Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao

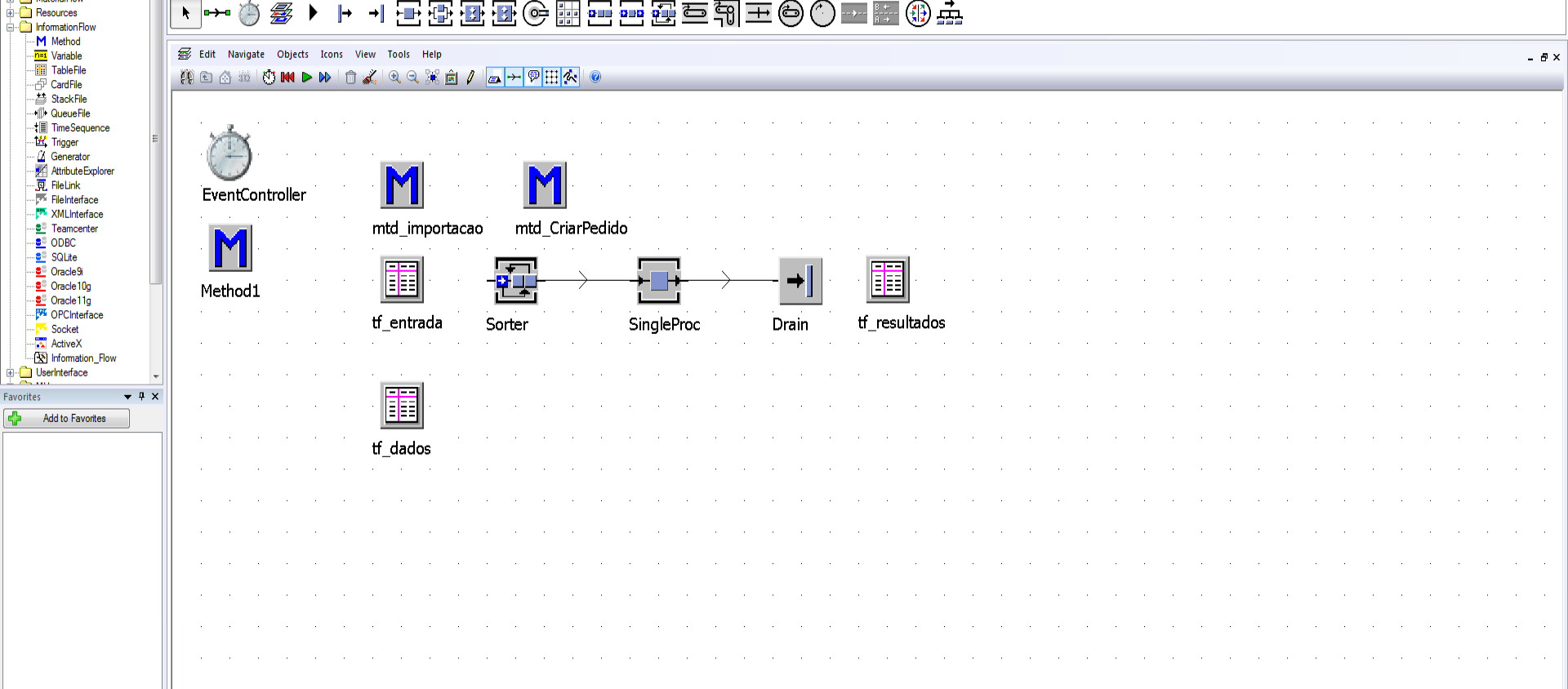


Rename

Name: mtd_importacao

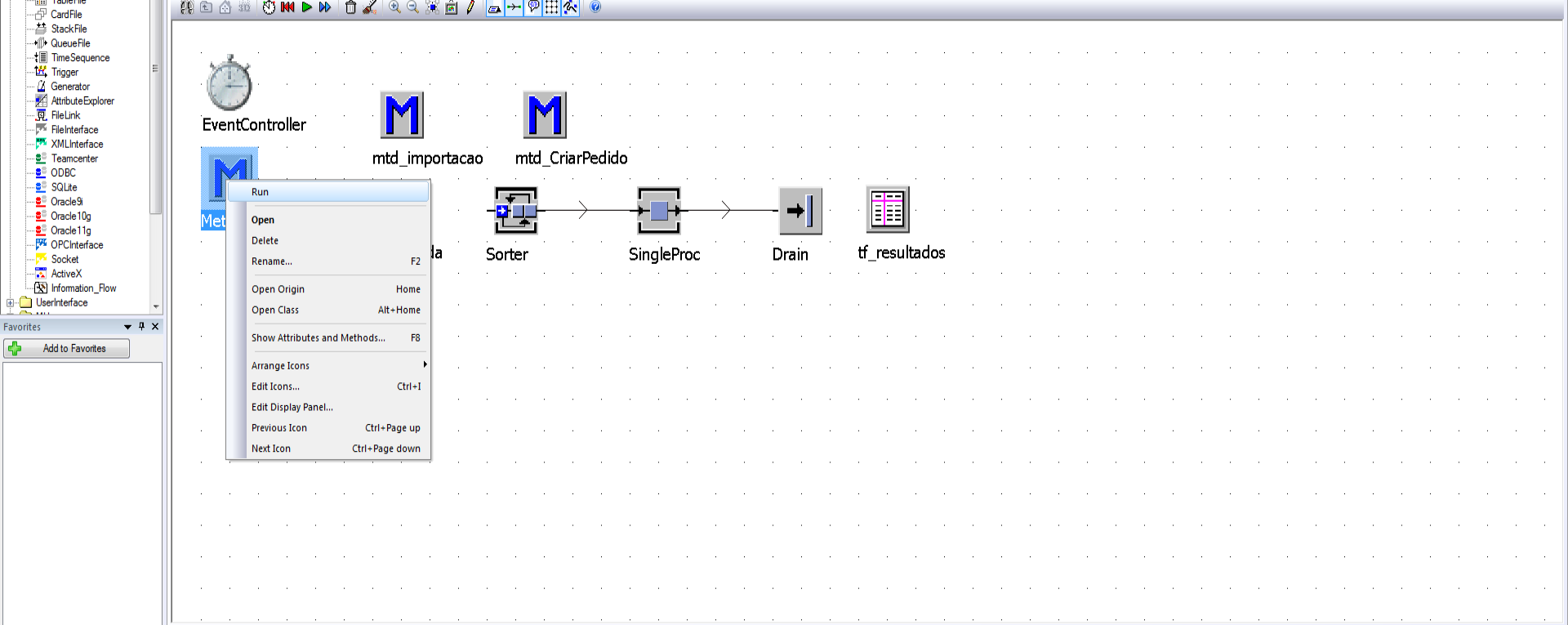
Label:

OK Cancel



Frame1 (175%) x

Console
Reset ...
Init ...
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao



- Run
- Open
- Delete
- Rename... F2
- Open Origin Home
- Open Class Alt+Home
- Show Attributes and Methods... F8
- Arrange Icons
- Edit Icons... Ctrl+I
- Edit Display Panel...
- Previous Icon Ctrl+Page up
- Next Icon Ctrl+Page down

Frame1 (175%) x

Console

Reset ...

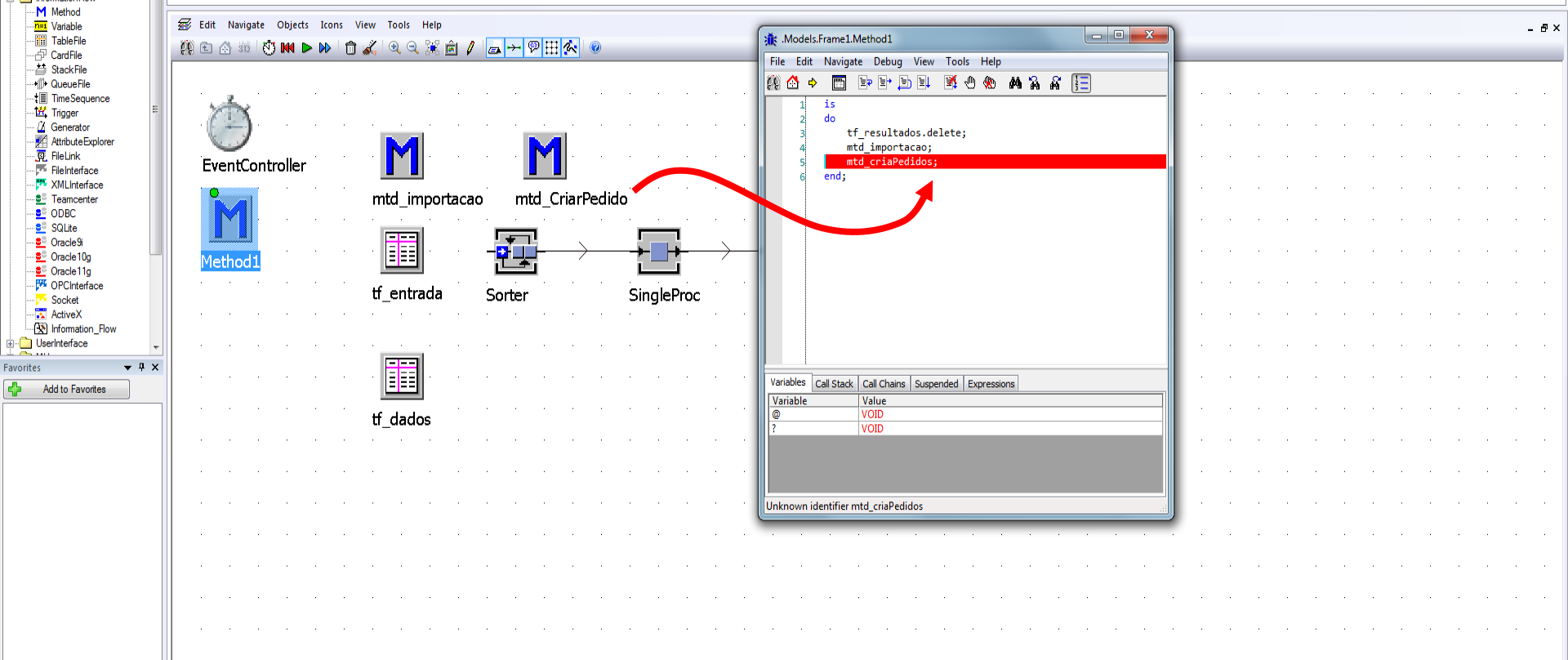
Init ...

Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao

Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



```
File Edit Navigate Debug View Tools Help
1 is
2 do
3   tf_resultados.delete;
4   mtd_importacao;
5   mtd_criaPedidos;
6 end;
```

Variable	Value
@	VOID
?	VOID

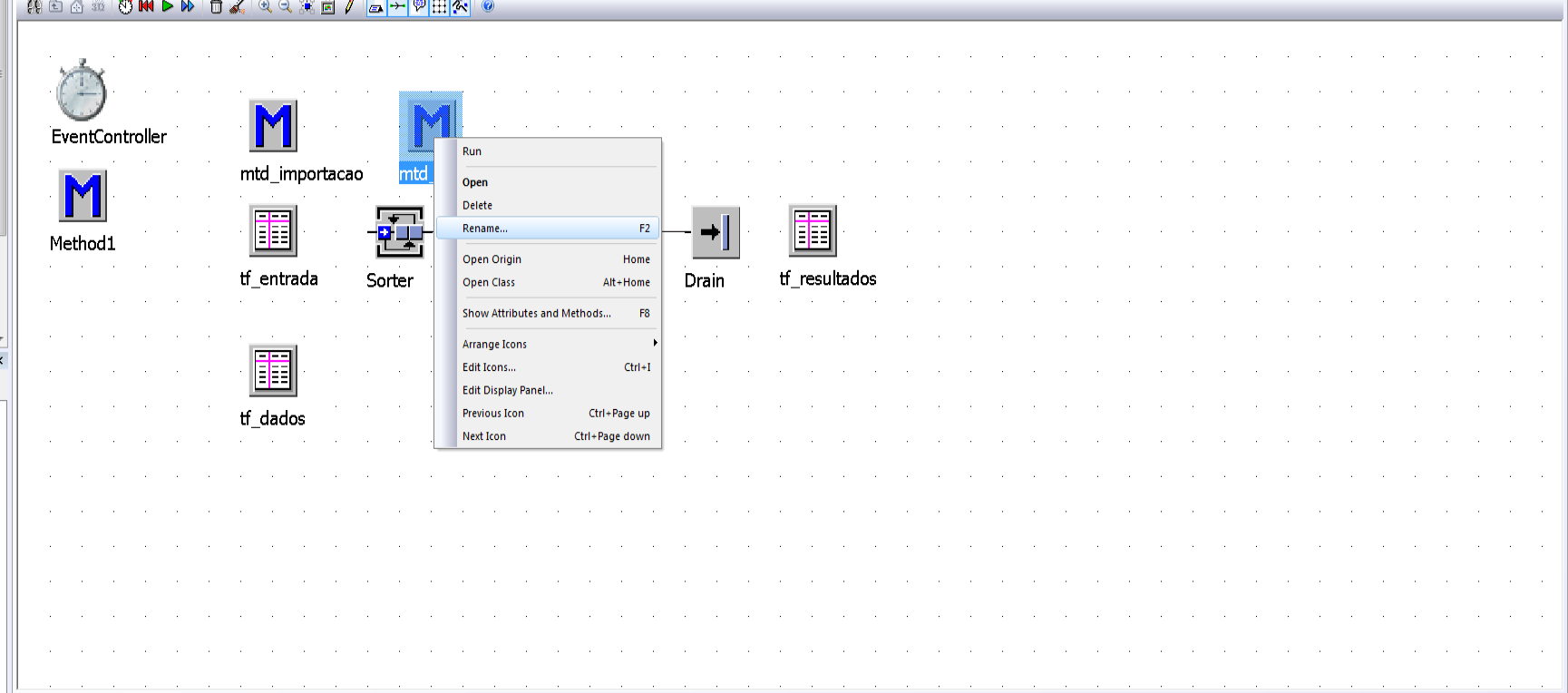
Unknown identifier mtd_criaPedidos

Frame1 (175%) x

Console

Init ...
Error in method '.Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method '.Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos

- Basis (4/80)
 - MaterialFlow
 - Resources
 - InformationFlow
 - Method
 - Variable
 - TableFile
 - CardFile
 - StackFile
 - QueueFile
 - TimeSequence
 - Trigger
 - Generator
 - AttributeExplorer
 - FileLink
 - FileInterface
 - XMLInterface
 - Teamcenter
 - ODBC
 - SQLite
 - Oracle9i
 - Oracle10g
 - Oracle11g
 - OPCInterface
 - Socket
 - ActiveX
 - Information_Flow
 - UserInterface



Console

```

Init ...
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_conaPedidos
  
```

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- Method
 - Variable
 - TableFile
 - CardFile
 - StackFile
 - QueueFile
 - TimeSequence
 - Trigger
 - Generator
 - AttributeExplorer
 - FileLink
 - FileInterface
 - XMLInterface
 - Teamcenter
 - ODBC
 - SQLite
 - Oracle9
 - Oracle10g
 - Oracle11g
 - OPCInterface
 - Socket
 - ActiveX
 - Information_Flow
- UserInterface

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

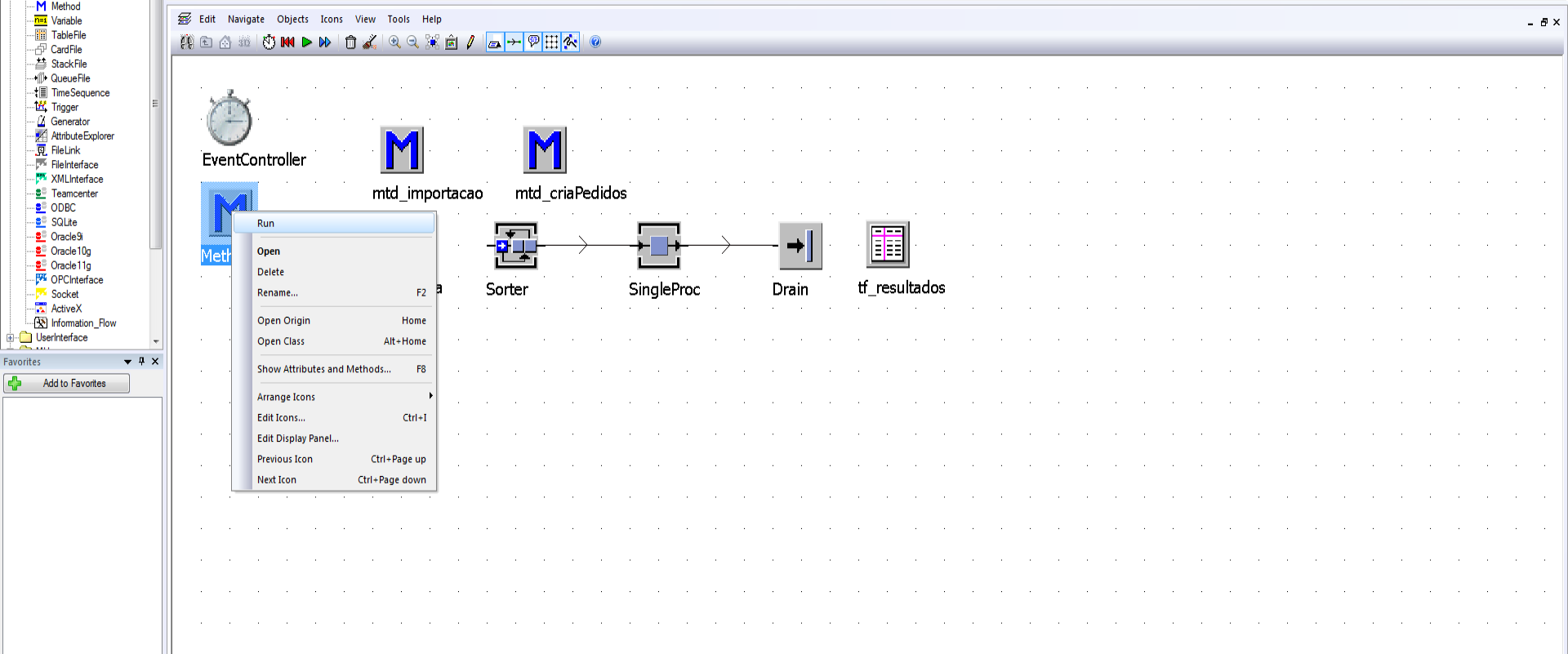
The diagram shows a process flow starting with 'tf_dados' leading to 'mtd_importacao', then 'Sorter', 'SingleProc', 'Drain', and finally 'tf_resultados'. A 'Rename' dialog box is open over the 'mtd_criarPedidos' object, with the 'Name' field containing 'mtd_criarPedidos' and the 'Label' field containing 'Pedidos Firmados'. A red arrow points to the 'OK' button in the dialog box.

EventController
Method1

mtd_importacao
tf_entrada
Sorter
SingleProc
Drain
tf_resultados
tf_dados

Console

```
Error in method 'Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criarPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criarPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criarPedidos
```

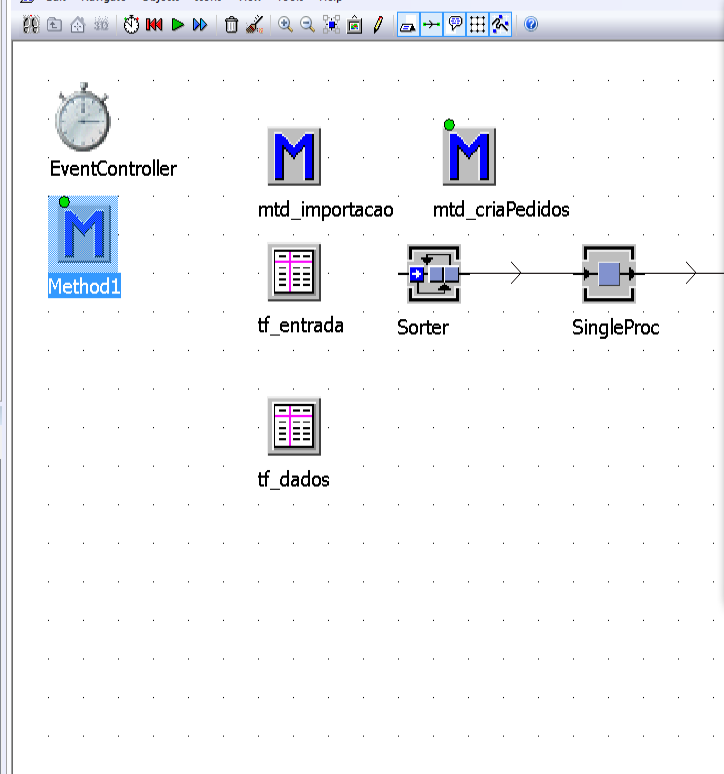
Frame1 (175%) x

Console

```
Error in method '.Models.Frame1.Method1' in line 4: Unknown identifier mtd_importacao
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
```

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- Method
- Variable
- TableFile
- CardFile
- StackFile
- QueueFile
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- Generator
- AttributeExplorer
- FileLink
- FileInterface
- XMLInterface
- Teamcenter
- ODBC
- SQLite
- Oracle9i
- Oracle10g
- Oracle11g
- OPCInterface
- Socket
- ActiveX
- Information_Flow
- UserInterface

Add to Favorites



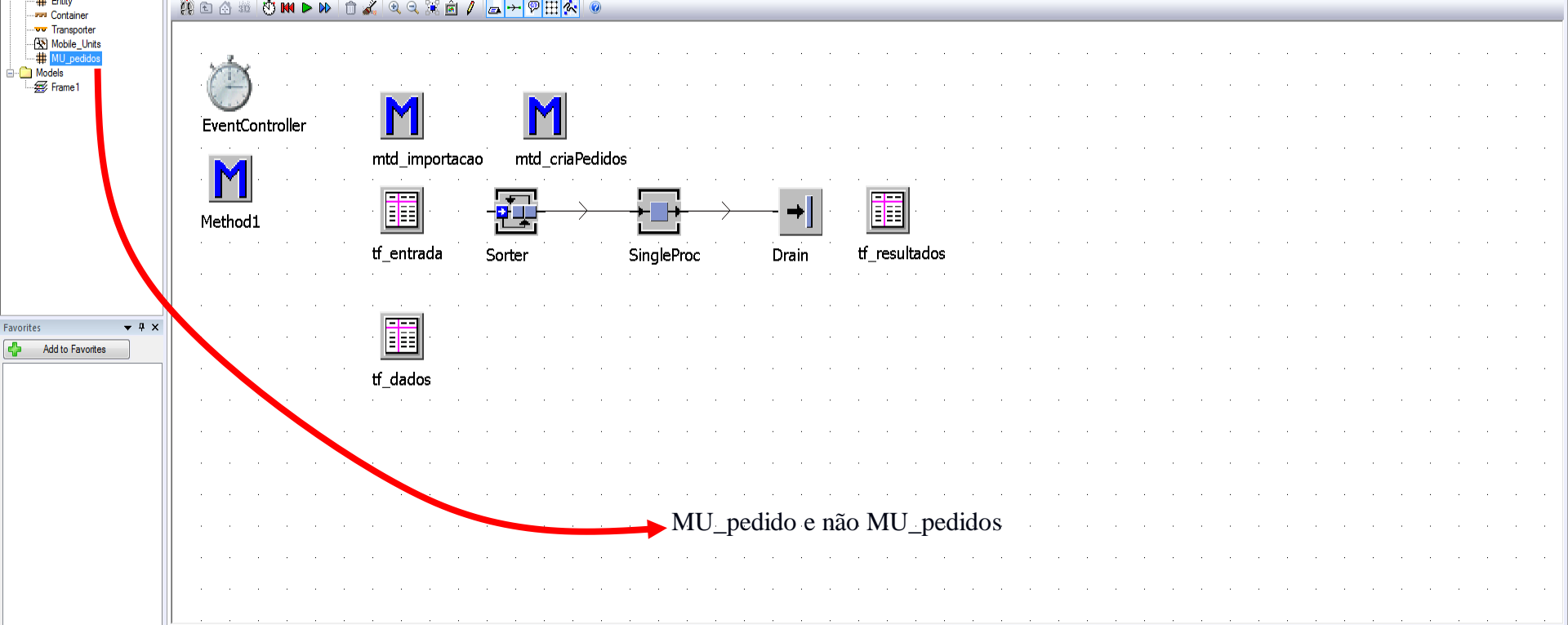
```
File Edit Navigate Debug View Tools Help
1  is
2  pedido : object;
3  i :integer;
4  do
5
6  for i:=1 to tf_dados.YDim loop
7  pedido := .MUS_mu_pedido.create(Sorter);
8
9  pedido.cod_pedido := tf_dados[1,i];
10 pedido.tempo_proc := tf_dados[2,i];
11 pedido.data_entrega := tf_dados[3,i];
12 next;
13 Sorter.sort;
14
15 end;
```

Variable	Value
@	VOID
?	.Models.Frame1.Method1
pedido	VOID
i	1

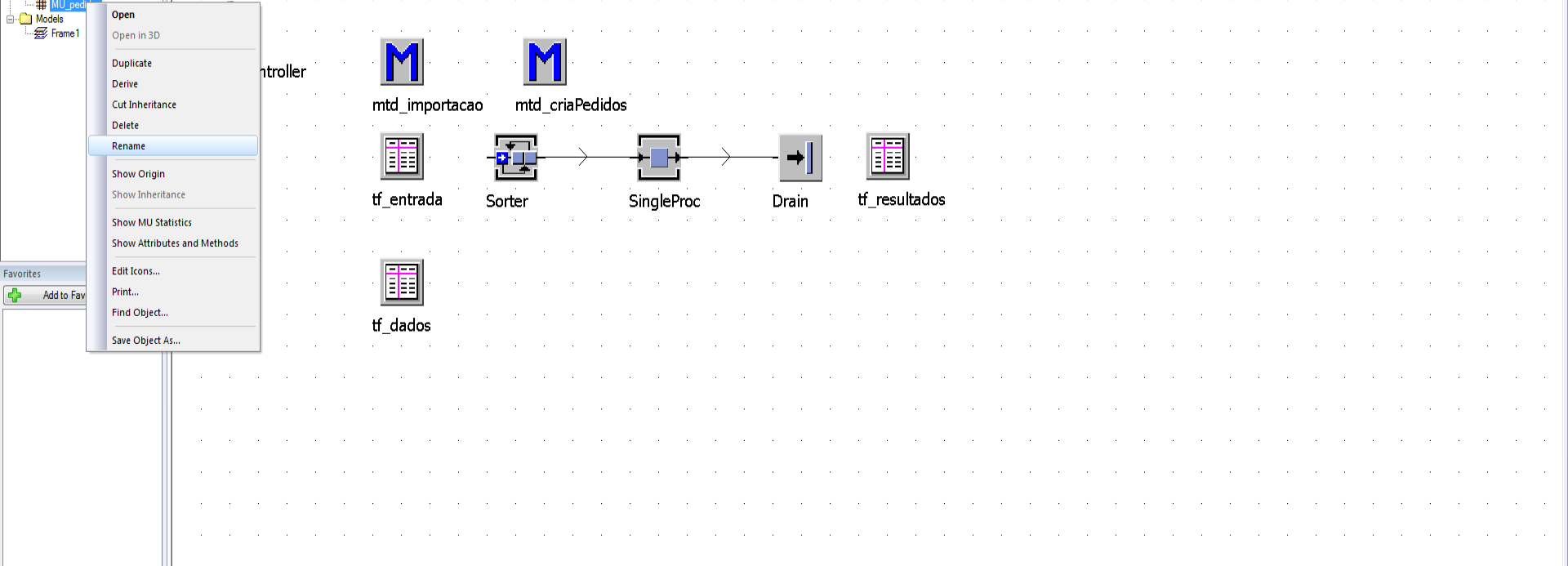
Unknown identifier mu_pedido

Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido





Console
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido



Frame1 (175%) x

Console

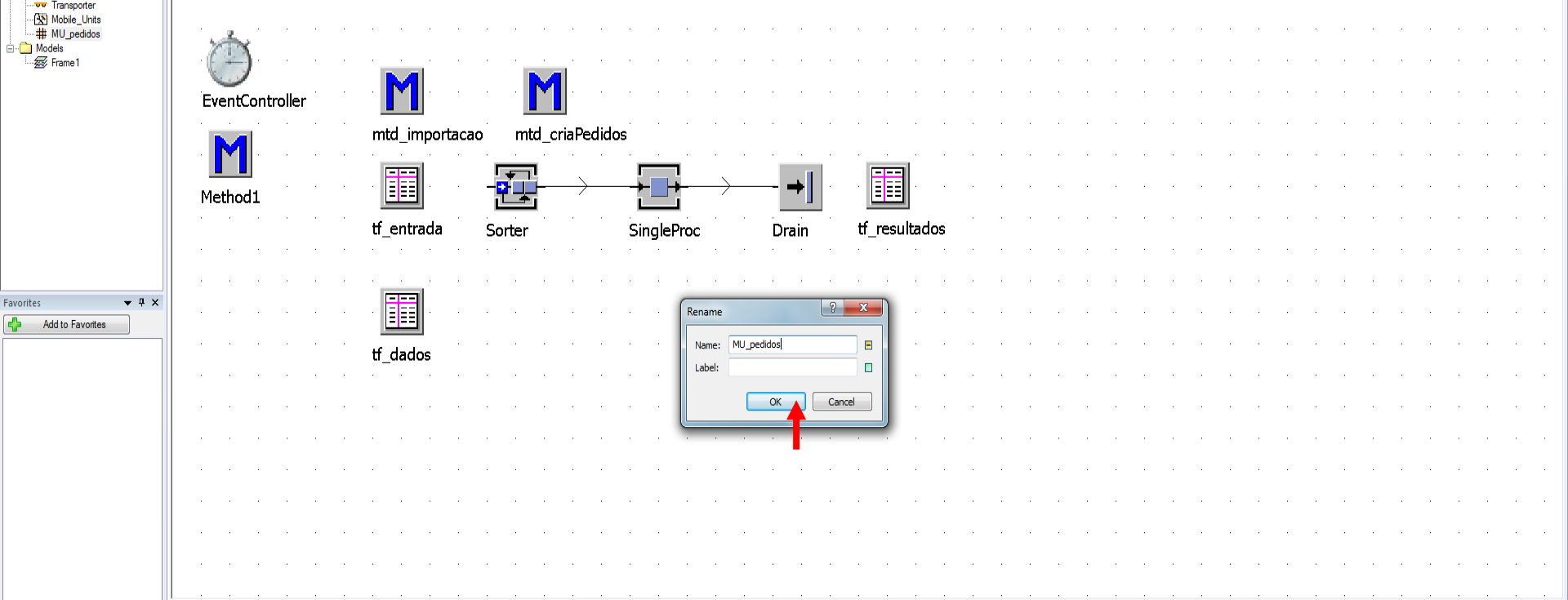
```
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method '.Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido
```

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



Edit Navigate Objects Icons View Tools Help




Rename

Name: MU_pedidos

Label:

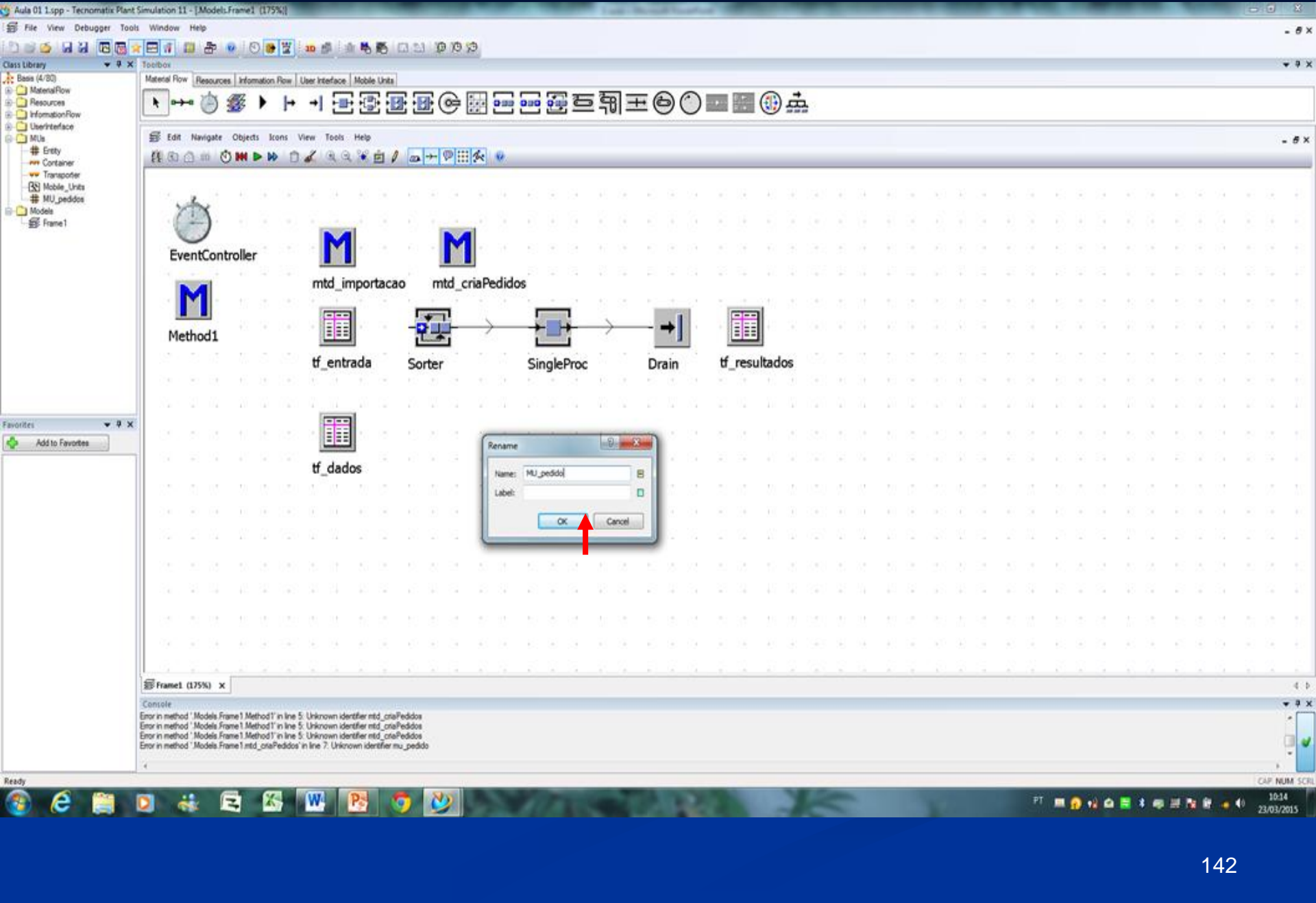
OK Cancel

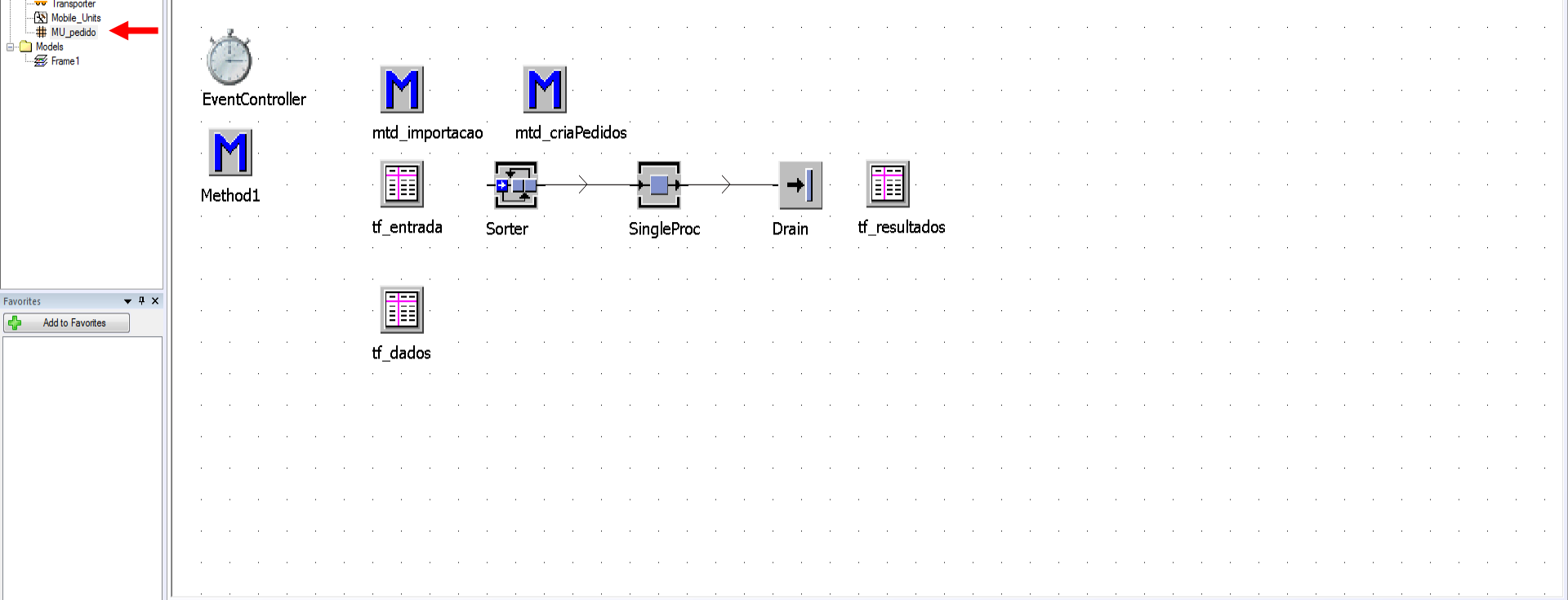


Frame1 (175%) x

Console

```
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.Method1' in line 5: Unknown identifier mtd_criaPedidos
Error in method 'Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido
```





Console
Error in method 'Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido
The object 'Models.Frame1.Sorter' cannot sort the MU 'MUs.MU_pedido:1'.
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)

File View Debugger Tools Window Help

Class Library

- Basis (4/80)
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 - InformationFlow
 - UserInterface
 - MUs
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 - Transporter
 - Mobile_Units
 - MU_pedido
 - Models
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Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

The diagram shows a process flow on a grid background. From left to right, the elements are:

- EventController**: Represented by a clock icon.
- Metr**: A blue square icon with a white 'M'.
- mtd_importacao**: A blue square icon with a white 'M'.
- mtd_criaPedidos**: A blue square icon with a white 'M'.
- Sorter**: A square icon with a plus sign and a minus sign.
- SingleProc**: A square icon with a plus sign.
- Drain**: A square icon with a vertical bar and an arrow.
- tf_resultados**: A square icon with a grid pattern.

 Arrows indicate the flow from EventController to Metr, then to mtd_importacao, mtd_criaPedidos, Sorter, SingleProc, Drain, and finally to tf_resultados. A context menu is open over the Metr icon, listing various actions such as Run, Open, Delete, and Arrange Icons.

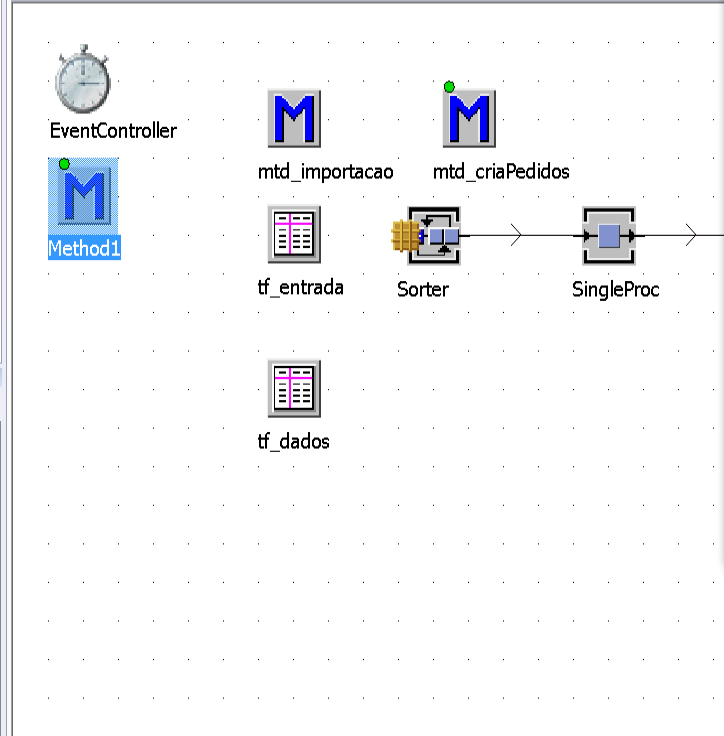
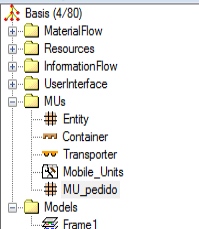
Console

```

Error in method '.Models.Frame1.mtd_criaPedidos' in line 7: Unknown identifier mu_pedido
The object .Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido:1.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
  
```

Starts the Method

Windows Taskbar: CAP NUM SCRL 10:18 23/03/2015



```
File Edit Navigate Debug View Tools Help
1 is
2 pedido : object;
3 i :integer;
4 do
5
6 for i:=1 to tf_dados.YDim loop
7   pedido := .MUs.mu_pedido.create(Sorter);
8   pedido.cod_pedido := tf_dados[1,i];
9   pedido.tempo_proc := tf_dados[2,i];
10  pedido.data_entrega := tf_dados[3,i];
11 next;
12
13 Sorter.sort;
14
15 end;
```

Variable	Value
@	VOID
?	.Models.Frame1.Method1
pedido	.MUs.MU_pedido1
i	1

Unknown identifier cod_pedido

Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
The object .Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido1.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido



1ª correção

Planilha tf_dados

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1.tf_dados]

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

Class Library

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- MU_pedido
- Models
- Frame1

File Edit Format Navigate View Tools Help

	integer 1	integer 2	integer 3
string	Cod_Produto	tempo_proc	data_entrega
1	1	27	0
2	2	7	4
3	3	20	5
4	4	19	0
5	5	52	1
6	6	50	5
7	7	37	6
8	8	19	3
9	9	48	0
10	10	31	5
11	11	42	0
12	12	42	3
13	13	40	2
14	14	51	5
15	15	13	1
16	16	38	4
17	17	37	5
18	18	43	0
19	19	40	5
20	20	38	5
21	21	20	0
22	22	30	5
23	23	60	1
24	24	17	1
25	25	36	1
26	26	55	2
27	27	42	5
28	28	5	6
29	29	15	2
30	30	49	0

Frame1 (175%) tf_dados x

Console

The object Models.Frame1.Sorter cannot sort the MU_MUs.MU_pedido:1.
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
Init ...

Cod_Pedido para cod_Produto

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

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 - MU_pedido
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Material Flow

Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

```

    graph LR
      EventController --> mtd_importacao
      mtd_importacao --> mtd_criaPedidos
      mtd_criaPedidos --> Sorter
      Sorter --> SingleProc
      SingleProc --> Drain
      Drain --> tf_resultados
  
```

EventController

mtd_importacao

mtd_criaPedidos

Sorter

SingleProc

Drain

tf_resultados

Run

- Open
- Delete
- Rename... F2
- Open Origin Home
- Open Class Alt+Home
- Show Attributes and Methods... F8
- Arrange Icons
- Edit Icons... Ctrl-I
- Edit Display Panel...
- Previous Icon Ctrl+Page up
- Next Icon Ctrl+Page down

Frame1 (175%) x

Console

```

The object .Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido:1.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
Init ...
  
```

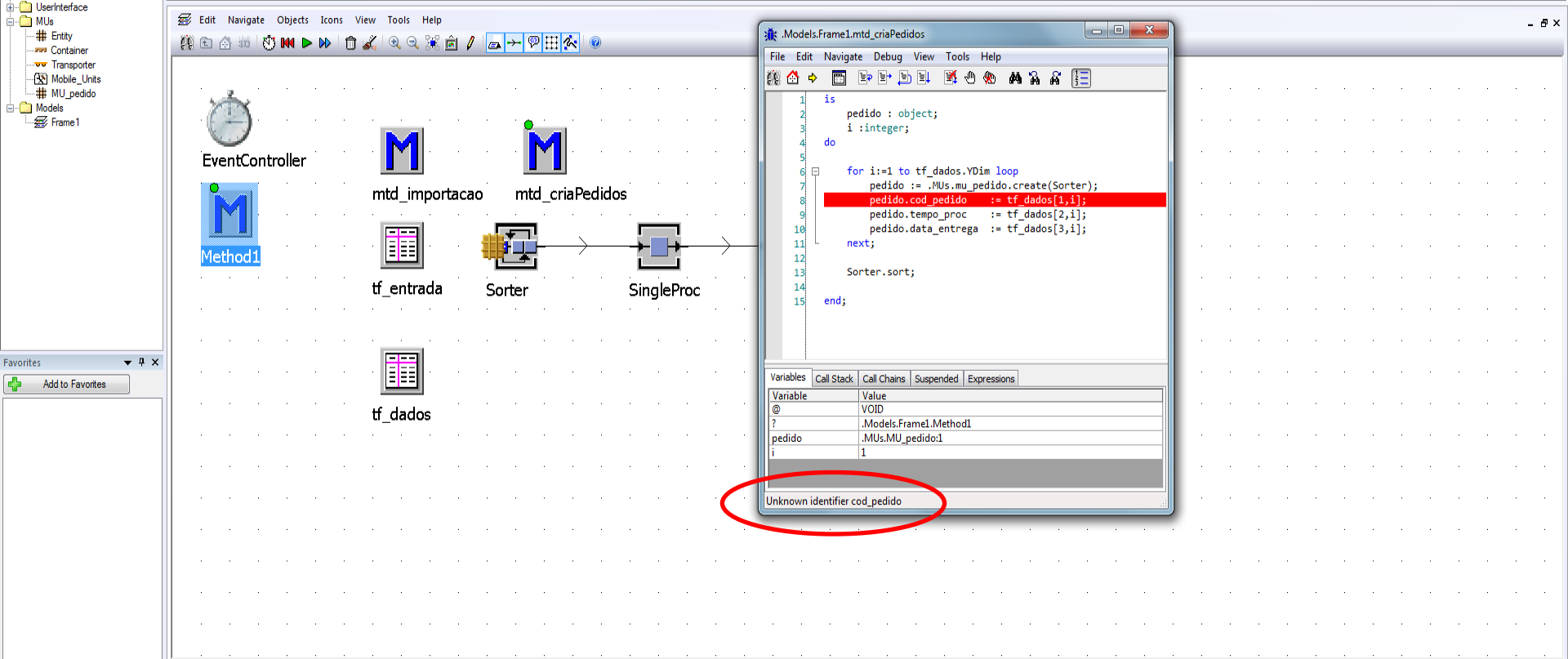
Starts the Method

PT 10:35 23/03/2015

File View Debugger Tools Window Help

Class Library

Material Flow Resources Information Flow User Interface Mobile Units



```
File Edit Navigate Debug View Tools Help  
1 is  
2 pedido : object;  
3 i :integer;  
4 do  
5  
6 for i:=1 to tf_dados.YDim loop  
7   pedido := .MUs.mu_pedido.create(Sorter);  
8   pedido.cod_pedido := tf_dados[1,i];  
9   pedido.tempo_proc := tf_dados[2,i];  
10  pedido.data_entrega := tf_dados[3,i];  
11 next;  
12  
13 Sorter.sort;  
14  
15 end;
```

Variable	Value
@	VOID
?	Models.Frame1.Method1
pedido	..MUs.MU_pedido:1
i	1

Unknown identifier cod_pedido

Frame1 (175%) x

Console

Reset ...

Init ...

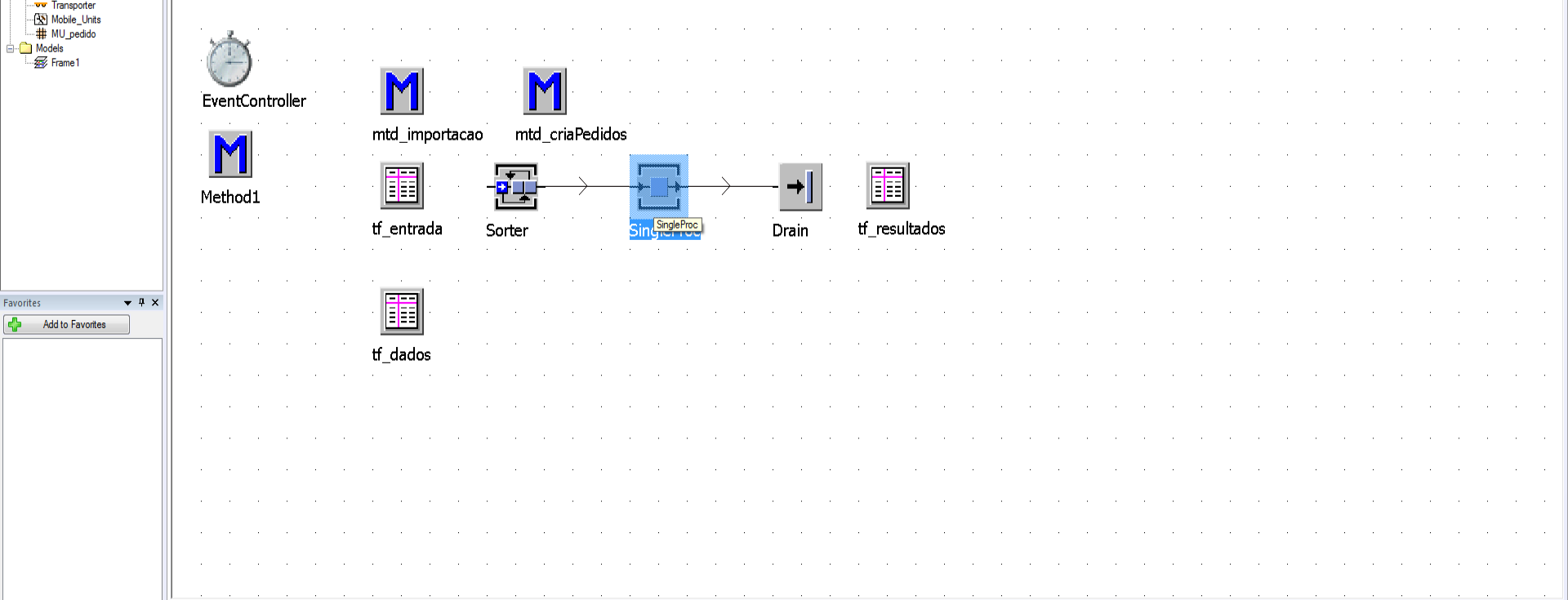
The object Models.Frame1.Sorter cannot sort the MU ..MUs.MU_pedido:1.

Error in method Models.Frame1.mtd_criaPedidos in line 8: Unknown identifier cod_pedido

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help



Favorites

Add to Favorites

Frame1 (175%) x

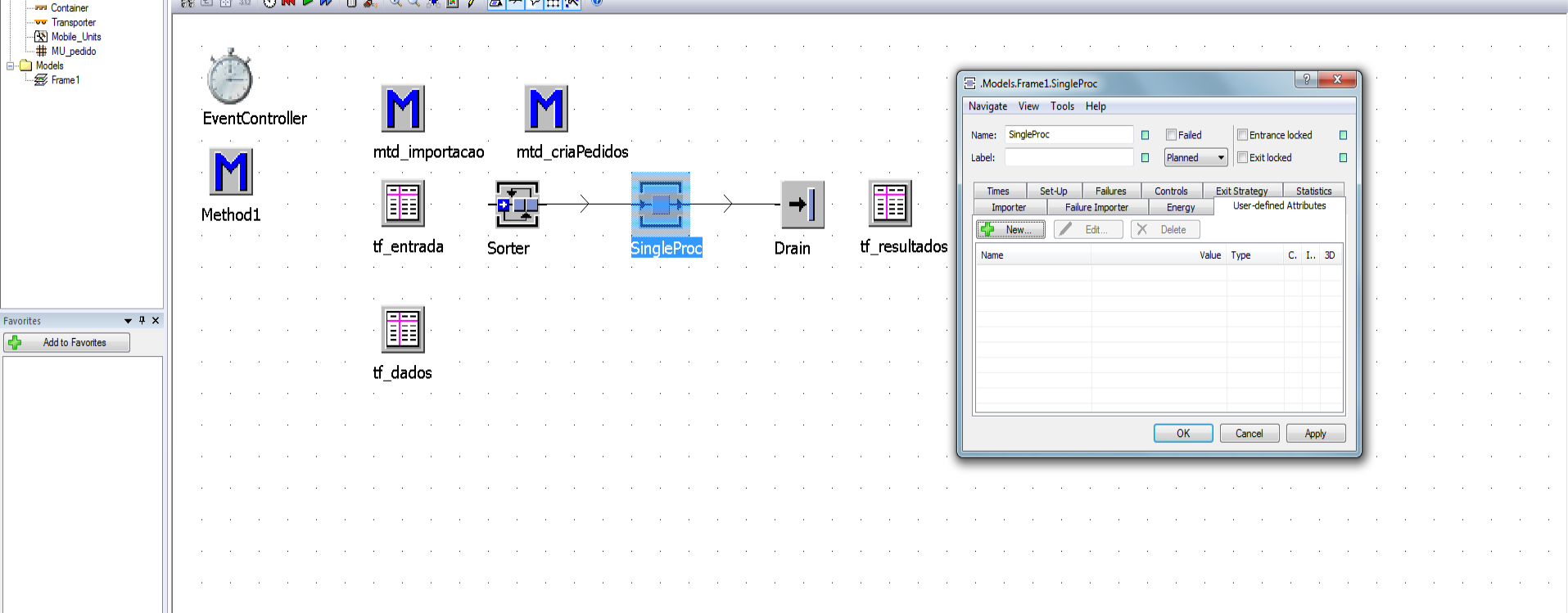
Console

Init ...

The object Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido:1.

Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido

Reset ...



.Models.Frame1.SingleProc

Navigate View Tools Help

Name: SingleProc Failed Entrance locked
Label: Planned Exit locked

Times Set-Up Failures Controls Exit Strategy Statistics

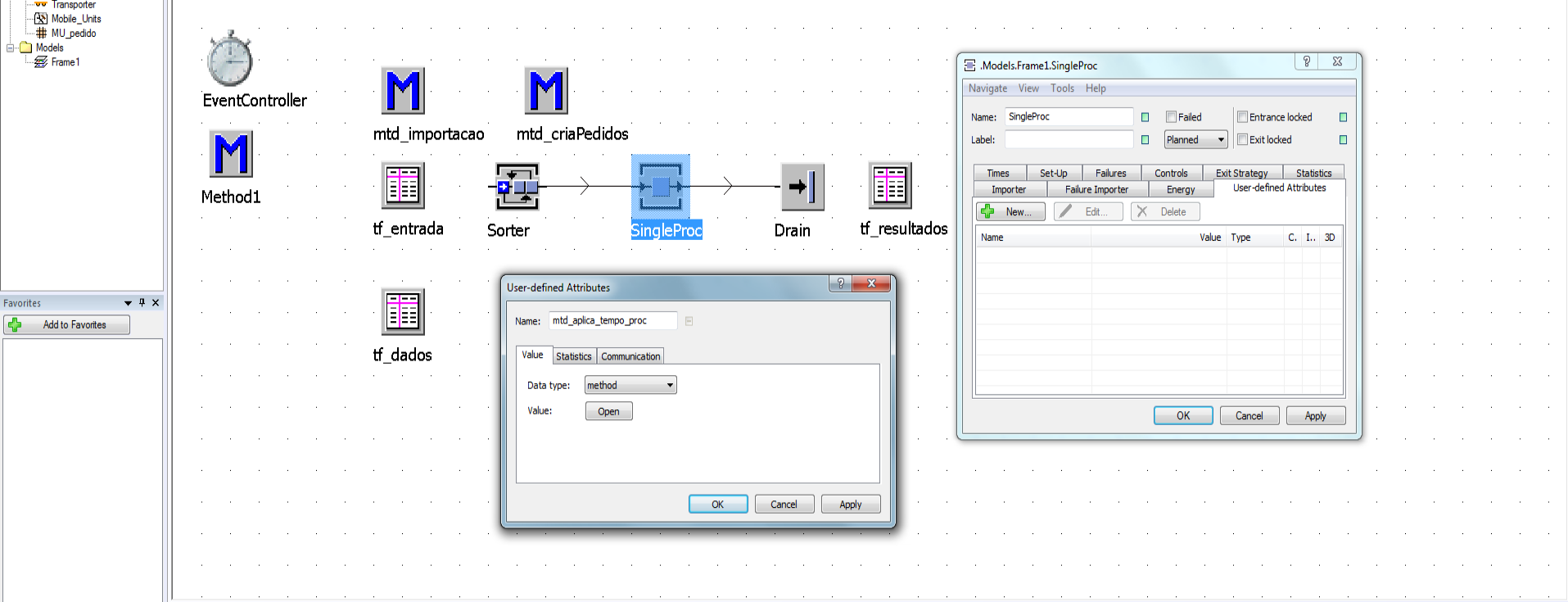
Importer Failure Importer Energy User-defined Attributes

Name	Value	Type	C.	I.	3D

Frame1 (175%) x

Console

Init ...
The object .Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido:1.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...



.Models.Frame1.SingleProc

Attributes for SingleProc:

- Name: SingleProc
- Label:
- Failed:
- Entrance locked:
- Planned:
- Exit locked:

Name	Value	Type	C.	I.	3D

Buttons: OK, Cancel, Apply

User-defined Attributes

Name: mtd_aplica_tempo_proc

Value: Statistics Communication

Data type: method

Value: Open

Buttons: OK, Cancel, Apply

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models.Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

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Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method1

mtd_importacao

mtd_criaPedidos

tf_entrada

Sorter

SingleProc

Drain

tf_resultados

tf_dados

Properties dialog for .Models.Frame1.SingleProc:

Name: SingleProc

Label:

Failed Entrance locked

Planned Exit locked

Times		Set-Up		Failures		Controls		Exit Strategy		Statistics	
Importer		Failure Importer		Energy		User-defined Attributes					
New...		Edit...		Delete							
Name	Value	Type	C.	I.	3D						
mtd_aplica_tempo_proc		method	*								

OK Cancel Apply

Console

```

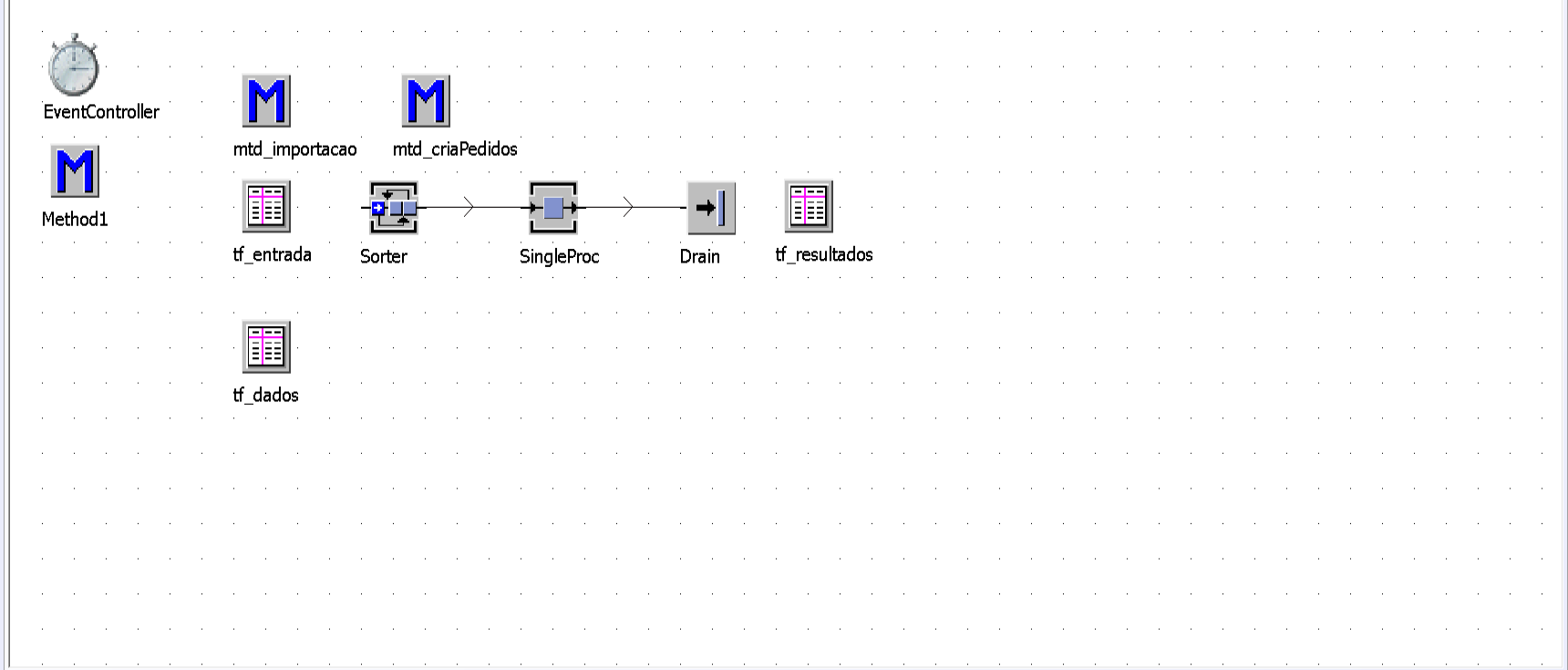
Init ...
The object .Models.Frame1.Sorter cannot sort the MU .MUs.MU_pedido:1.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
  
```

Class Library

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Entity
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- Transporter
- Mobile_Units
- MU_pedido
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help



Favorites

Add to Favorites

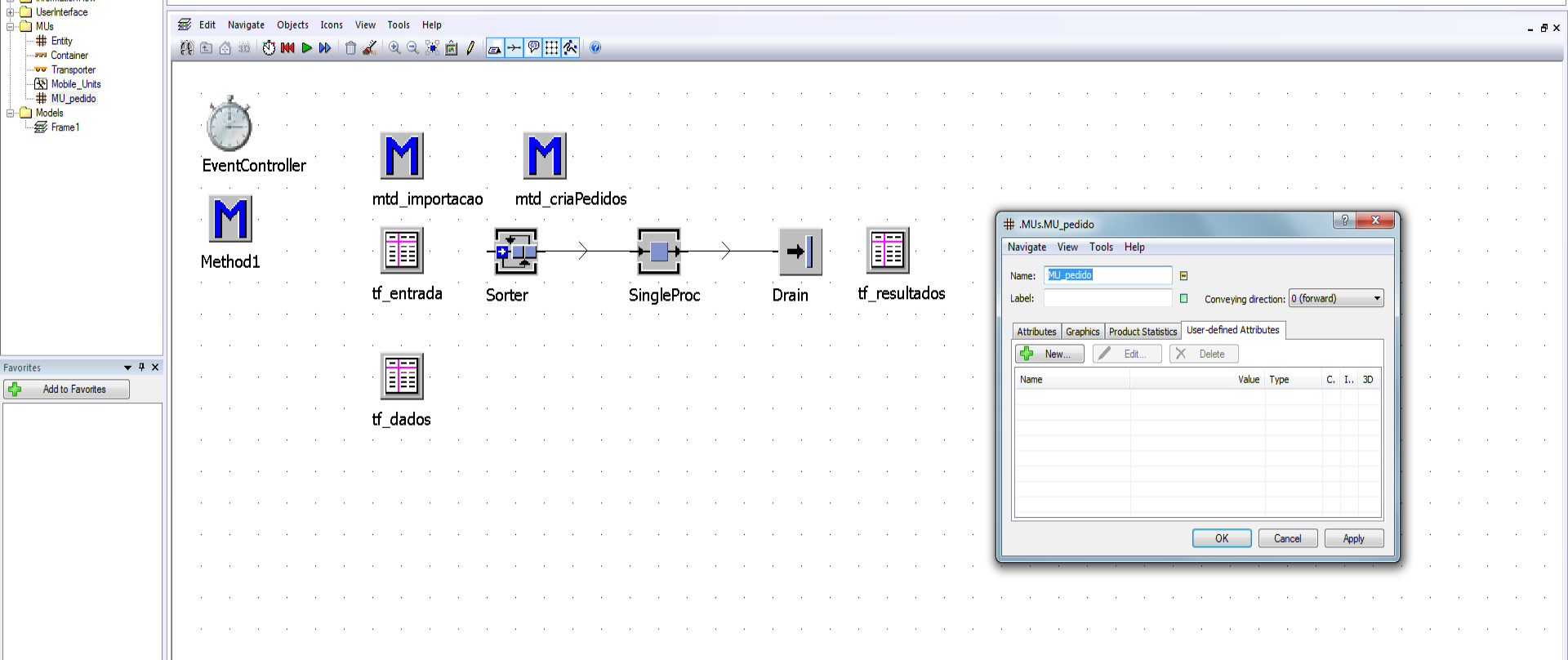
Frame1 (175%) x

Console

```
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
The object 'Models.Frame1.Sorter' cannot sort the MU 'MUs.MU_pedido:3'.
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
```

File View Debugger Tools Window Help

Material Flow Resources Information Flow User Interface Mobile Units



.MUs.MU_pedido

Navigate View Tools Help

Name: MU_pedido
Label:
Conveying direction: 0 (forward)

Attributes Graphics Product Statistics User-defined Attributes

New... Edit... Delete

Name	Value	Type	C.	I.	3D

OK Cancel Apply

Frame1 (175%) x

Console

```
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido  
The object 'Models.Frame1.Sorter' cannot sort the MU '.MUs.MU_pedido:3'.  
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido  
Reset ...
```

Aula 01 1.spp - Tecnomatix Plant Simulation 11 - [Models:Frame1 (175%)]

File View Debugger Tools Window Help

Class Library

- Basis (4/80)
 - MaterialFlow
 - Resources
 - InformationFlow
 - UserInterface
 - MUs
 - Entity
 - Container
 - Transporter
 - Mobile_Units
 - MU_pedido
 - Models
 - Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help

EventController

Method1

mtd_importacao

mtd_criaPedidos

tf_entrada

Sorter

SingleProc

Drain

tf_resultados

tf_dados

User-defined Attributes

Name: cod_produto

Value: Statistics Communication

Data type: integer

Value: 0

OK Cancel Apply

.MUs.MU_pedido

Navigate View Tools Help

Name: MU_pedido

Label: Conveying direction: 0 (forward)

Attributes Graphics Product Statistics User-defined Attributes

New... Edit... Delete

Name	Value	Type	C.	I.	3D

OK Cancel Apply

Frame1 (175%)

Console

```

Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
The object 'Models.Frame1.Sorter' cannot sort the MU 'MUs.MU_pedido:3'.
Error in method 'Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
  
```

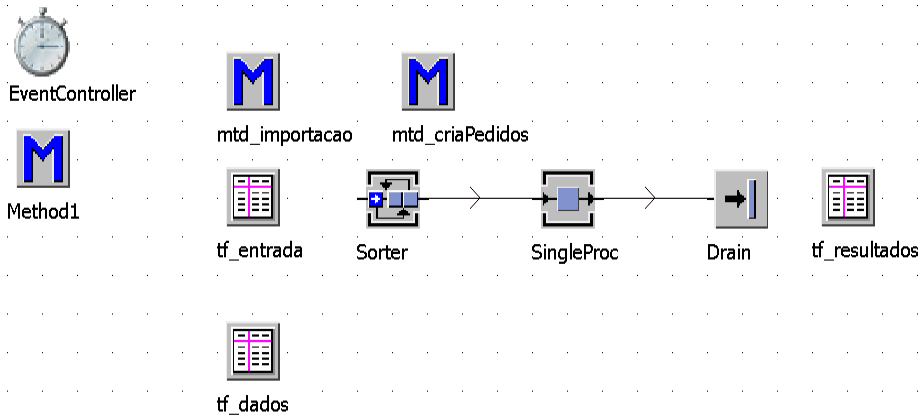


Class Library

- Basis (4/80)
- MaterialFlow
- Resources
- InformationFlow
- UserInterface
- MUs
- Entity
- Container
- Transporter
- Mobile_Units
- MU_pedido
- Models
- Frame1

Material Flow Resources Information Flow User Interface Mobile Units

Edit Navigate Objects Icons View Tools Help



.MUs.MU_pedido

Name: MU_pedido

Label: Conveying direction: 0 (forward)

Attributes Graphics Product Statistics User-defined Attributes

New... Edit... Delete

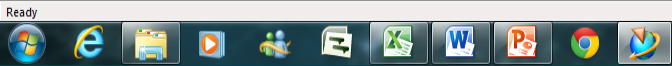
Name	Value	Type	C.	I.	3D
cod_produto	0	integer	*		
data_entrega	0	integer	*		
tempo_proc	0	integer	*		

OK Cancel Apply

Frame1 (175%) x

Console

```
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
The object '.Models.Frame1.Sorter' cannot sort the MU '.MUs.MU_pedido:3'.
Error in method '.Models.Frame1.mtd_criaPedidos' in line 8: Unknown identifier cod_pedido
Reset ...
```





- Basis
 - MaterialFlow
 - Resources
 - InformationFlow
 - Method
 - Variable
 - TableFile
 - CardFile
 - StackFile
 - QueueFile
 - TimeSequence
 - Trigger
 - Generator
 - AttributeExplorer
 - FileLink
 - FileInterface
 - XMLInterface
 - Information_Flow
 - mtd_importação
 - tf_dados
 - tf_entrada
 - M mt_CriarPedidos
 - tf_resultados
 - M INIT
 - M Reset
 - M mt_GeraDadosAleatorios
- UserInterface
- MUs
 - Entity
 - Container
 - Transporter
 - MUs
 - mu_pedidos
- Tools
 - BottleneckAnalyzer
 - SankeyDiagram
 - ExperimentManager
 - GAWizard
 - LayoutOptimizer
 - TransferStation
 - GanttWizard
 - GanttWizard
 - BasicObjects
 - frame
 - TableFile
 - CardFile
 - comment
 - Method
 - GanttChart

