

Practical Java Programming
Debugging with Eclipse

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<Lưu ý: không xóa nội dung cũ mà viết thêm lên như nhật ký>

Tài liệu đào tạo: <môn học, buổi học>

Phiên bản tài liệu:

Người cập nhật:

Ngày cập nhật:

Tóm tắt nội dung cập nhật chính:

Ngày ban hành sử dụng:

Agenda

- Debugging feature
- Breakpoint
- Debug Step into, Step over Step return
- Watcher
- Comment bloc

Using output display too: System.out.println

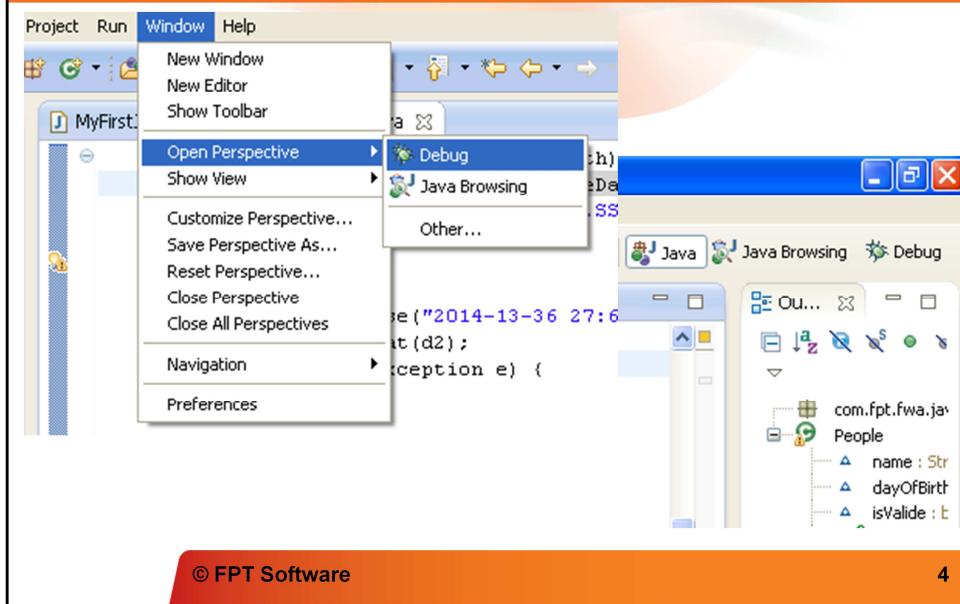


DEBUGGING FEATURES

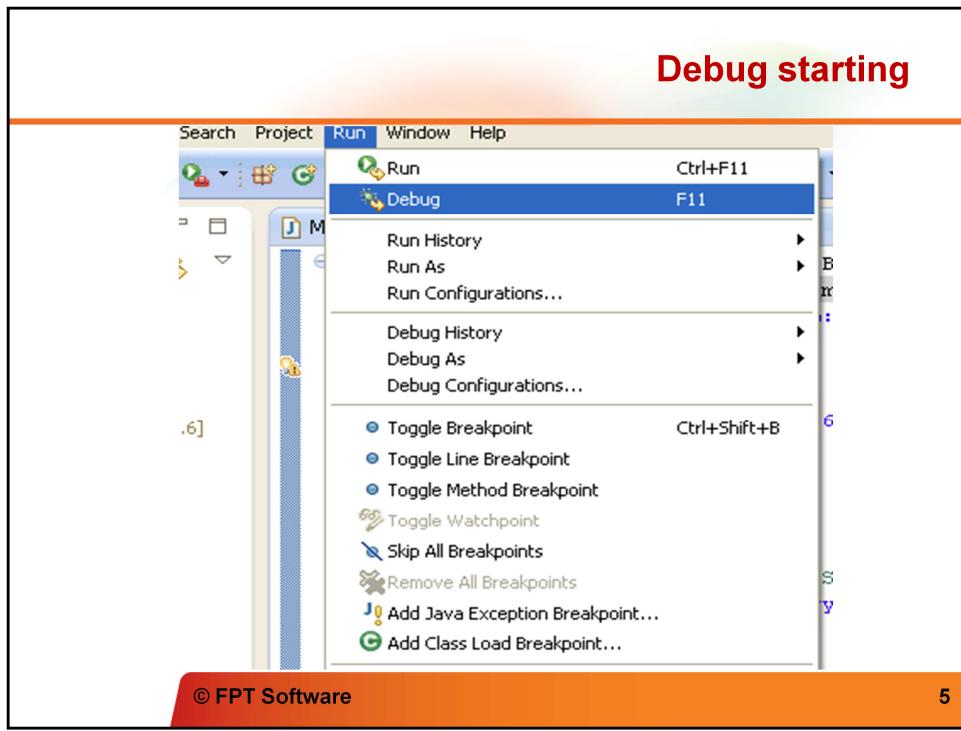
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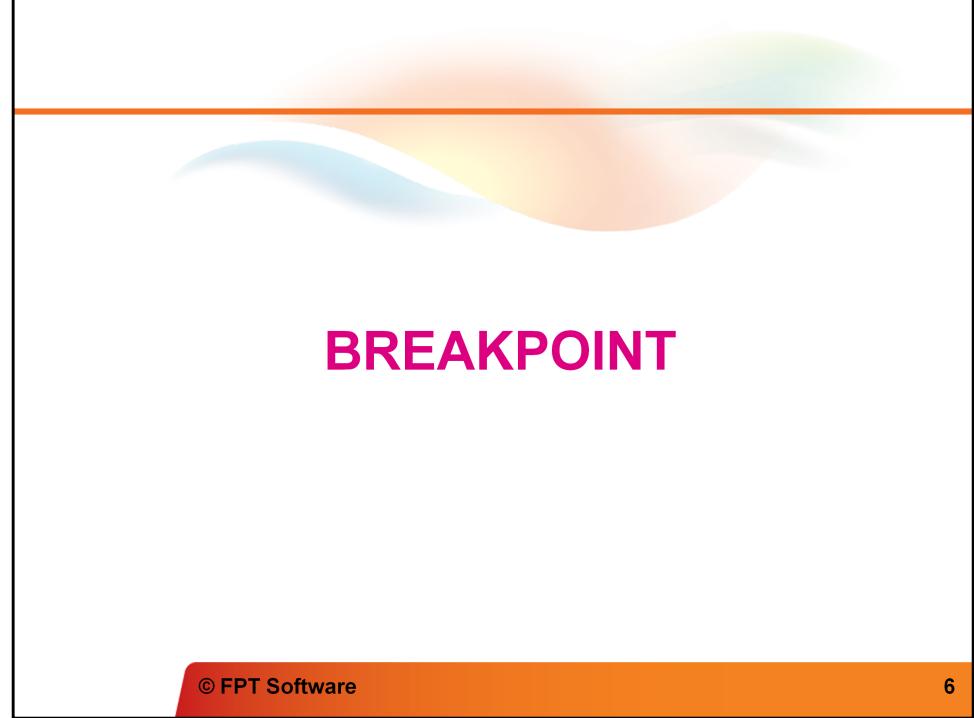
Debugging perspective



Present menu items



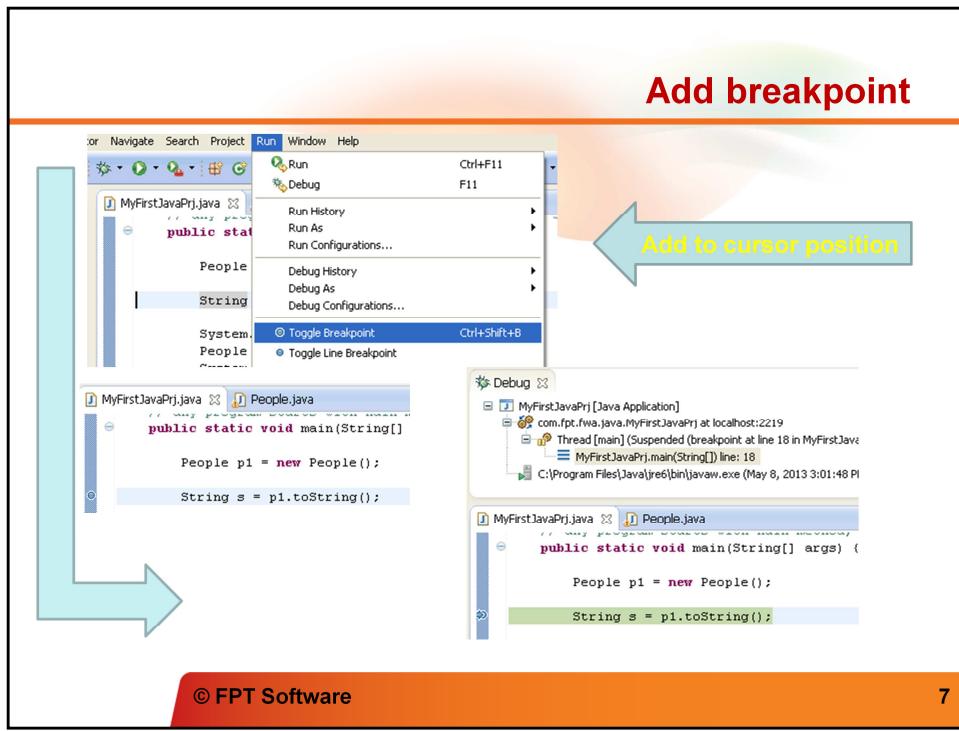
Present menu items



BREAKPOINT

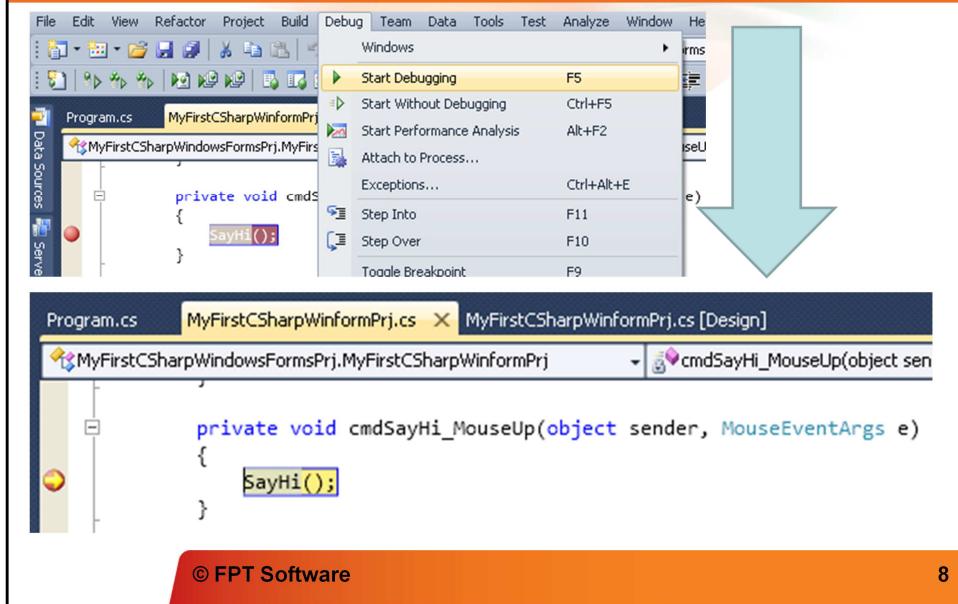
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F9

Using Breakpoint

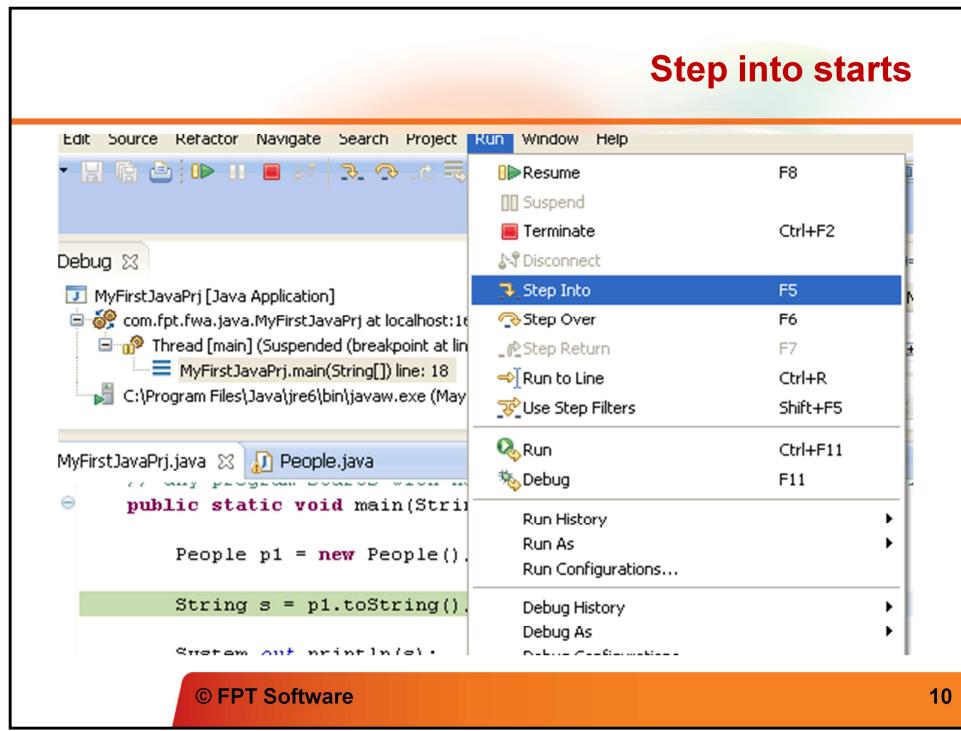




STEP INTO AND STEP OVER

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Present menu items

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Step into

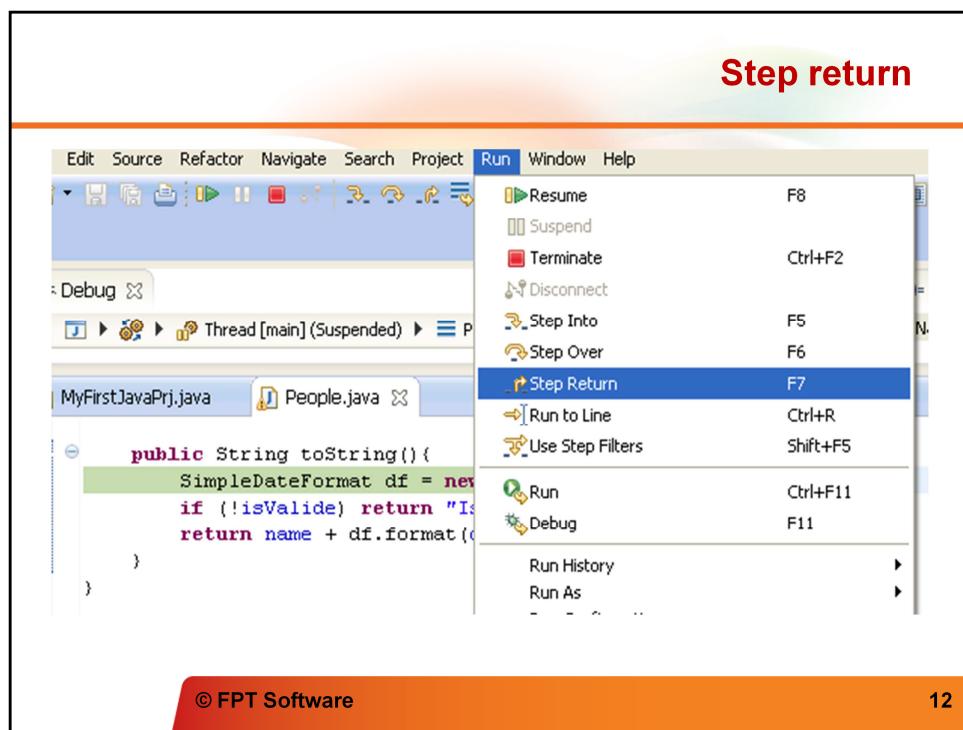
The screenshot shows a Java IDE interface. At the top, there are two tabs: "MyFirstJavaPrj.java" and "People.java". The "People.java" tab is active. Below the tabs, the code for the `toString` method of the `People` class is displayed. A green rectangular highlight is placed over the line of code: "SimpleDateFormat df = new SimpleDateFormat("dd/MM/yyyy");". The code is as follows:

```
public String toString(){
    SimpleDateFormat df = new SimpleDateFormat("dd/MM/yyyy");
    if (!isValid) return "Is not valide object";
    return name + df.format(dayOfBirth);
}
```

At the bottom left of the interface, there is a watermark-like text: "© FPT Software". At the bottom right, the number "11" is displayed.

Present menu items

Step return



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Present menu items

Step out

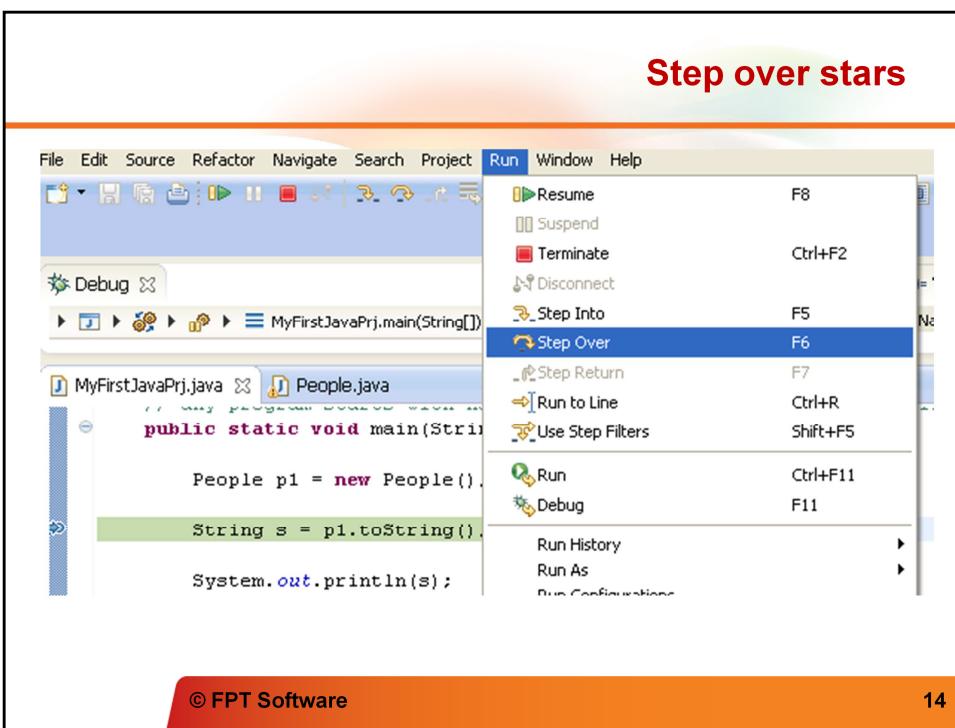
```
MyFirstJavaPrj.java < People.java
public static void main(String[] args) {
    People p1 = new People();
    String s = p1.toString();
    System.out.println(s);
}
```

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Present menu items

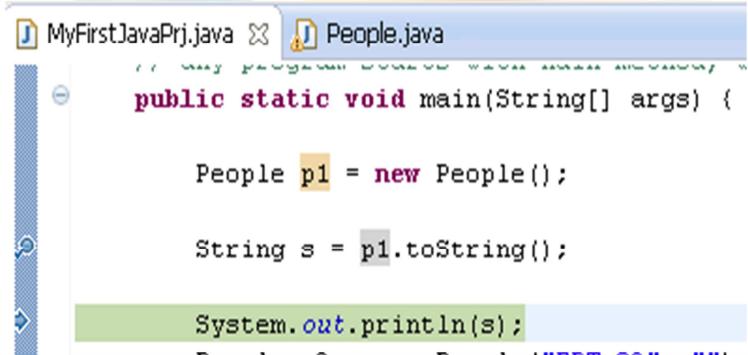
Step over stars



Present menu items

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Step over



The screenshot shows a Java IDE interface with two tabs: 'MyFirstJavaPrj.java' and 'People.java'. The 'People.java' tab is active. The code in the editor is:

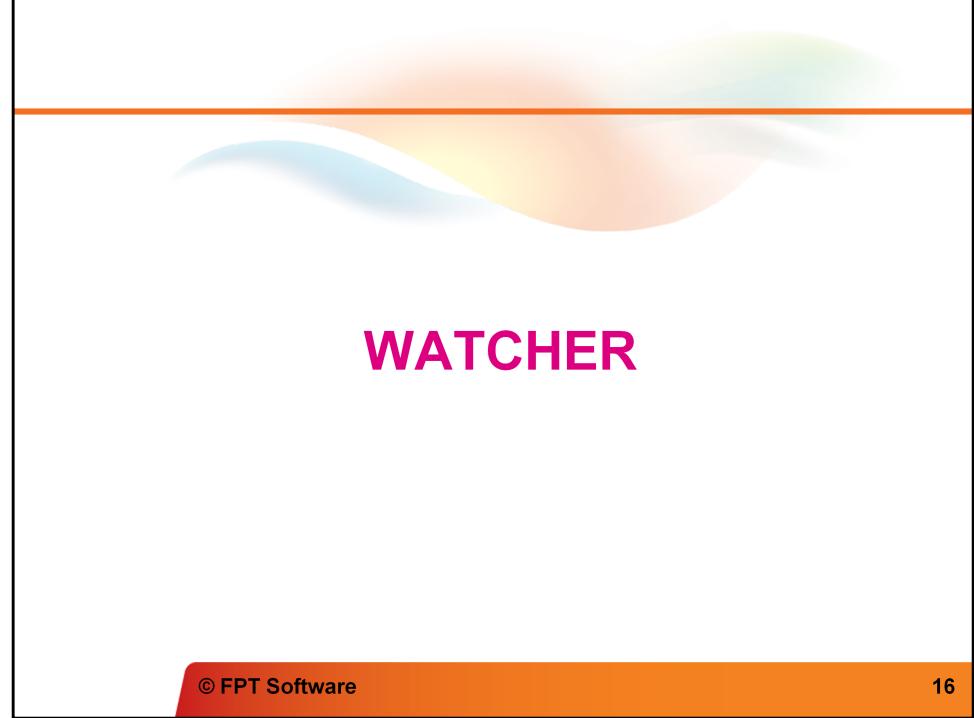
```
public static void main(String[] args) {  
    People p1 = new People();  
    String s = p1.toString();  
    System.out.println(s);
```

The line 'System.out.println(s);' is highlighted in green, indicating it is the next line to be executed.

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From slide



WATCHER

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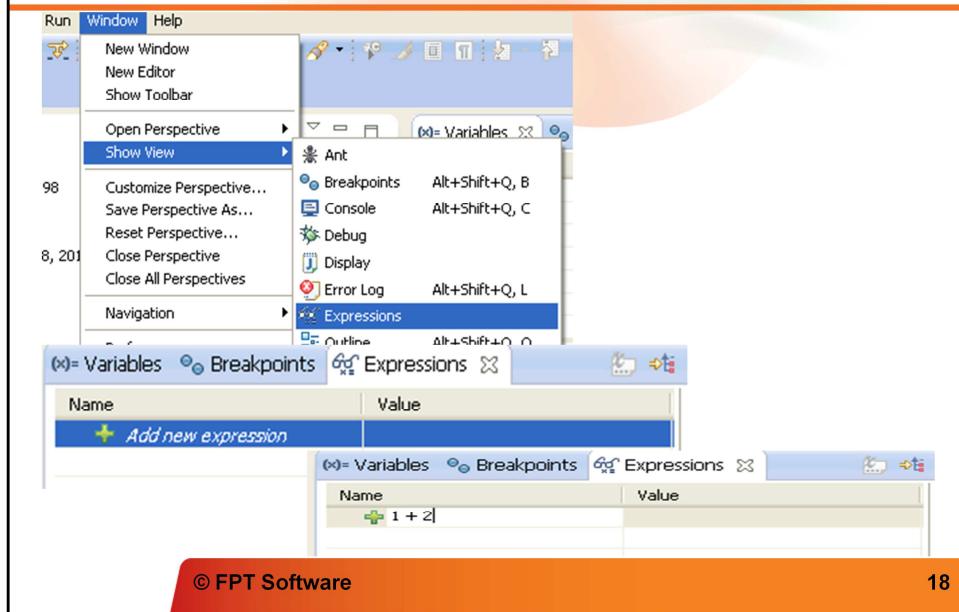
Variable watcher

Name	Value
args	String[0] (id=16)
p1	People (id=26)
s	"Is not valide object" (id=19)

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Expression watcher



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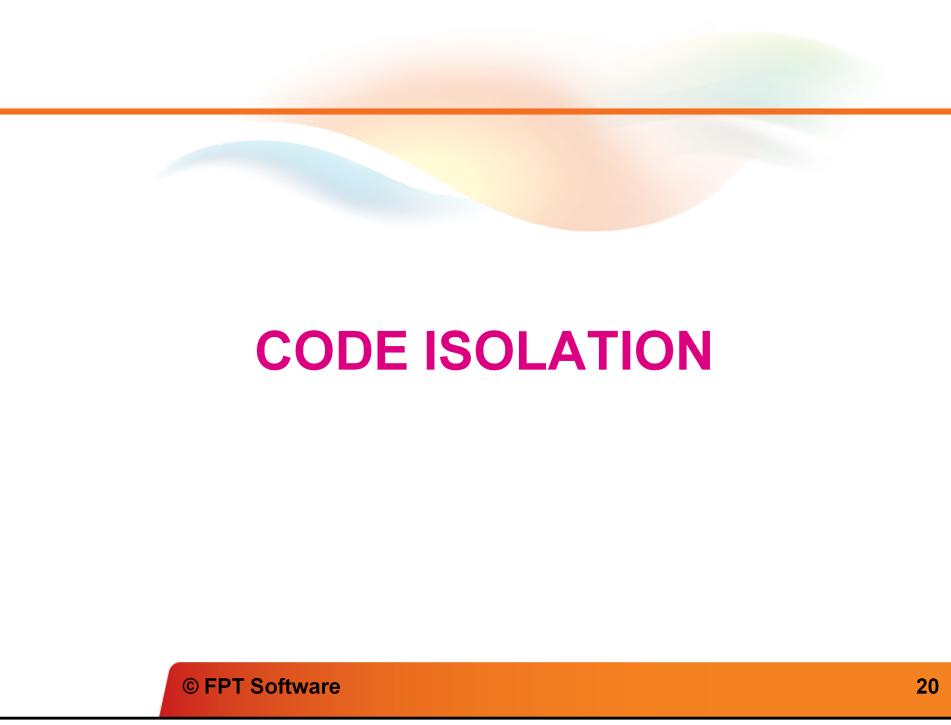
Customized: out of context

The screenshot shows a window titled "Expressions" with a table of variables. The table has two columns: "Name" and "Value".

Name	Value
X+Y =? "1 + 2"	3
+ X+Y =? "a"	<error(s)_during_the_evaluation>
Add new expression	

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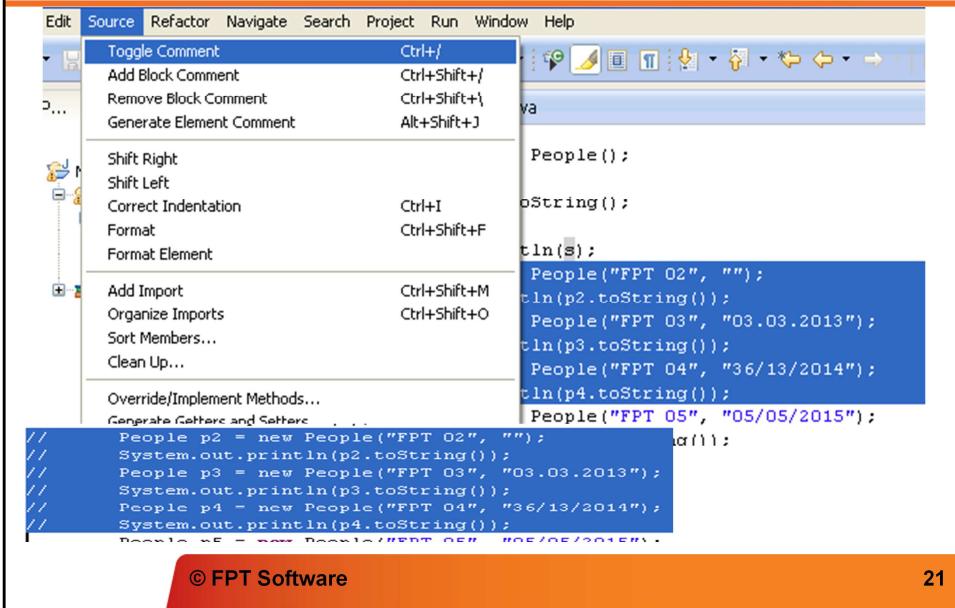


CODE ISOLATION

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Deactivate/Reactivate



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Attention, some Eclipse version has Ctrl+7 in place of Ctrl+/ but the last one is still OK

Lesson summary

- Start debugging: F11
- Breakpoint: Ctrl+Shift+B key
- Debug Step into and Step over: F5/F6 key
- Debug Step return: F7
- Debug Continue: F8
- Watcher: for variable “in context”
- Comment bloc: Ctrl+ /



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