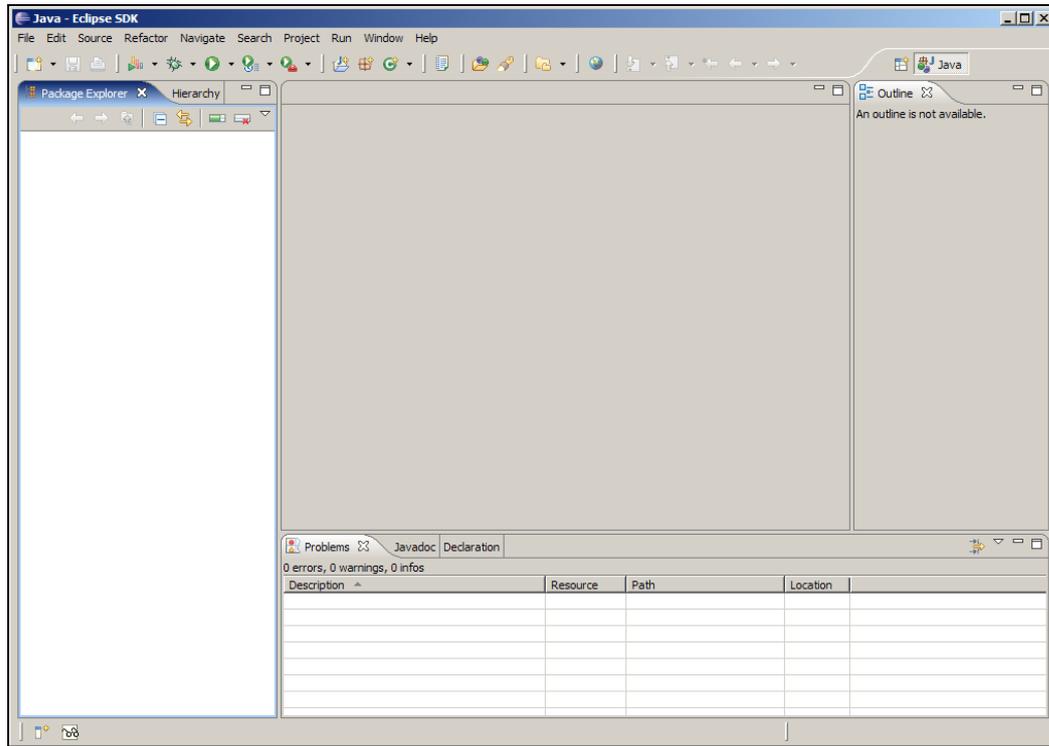




Slide 1

Slide notes: 欢迎来到 developerWorks 演示中心，今天我们将看一看如何使用 Eclipse 进行自动化图形界面测试。

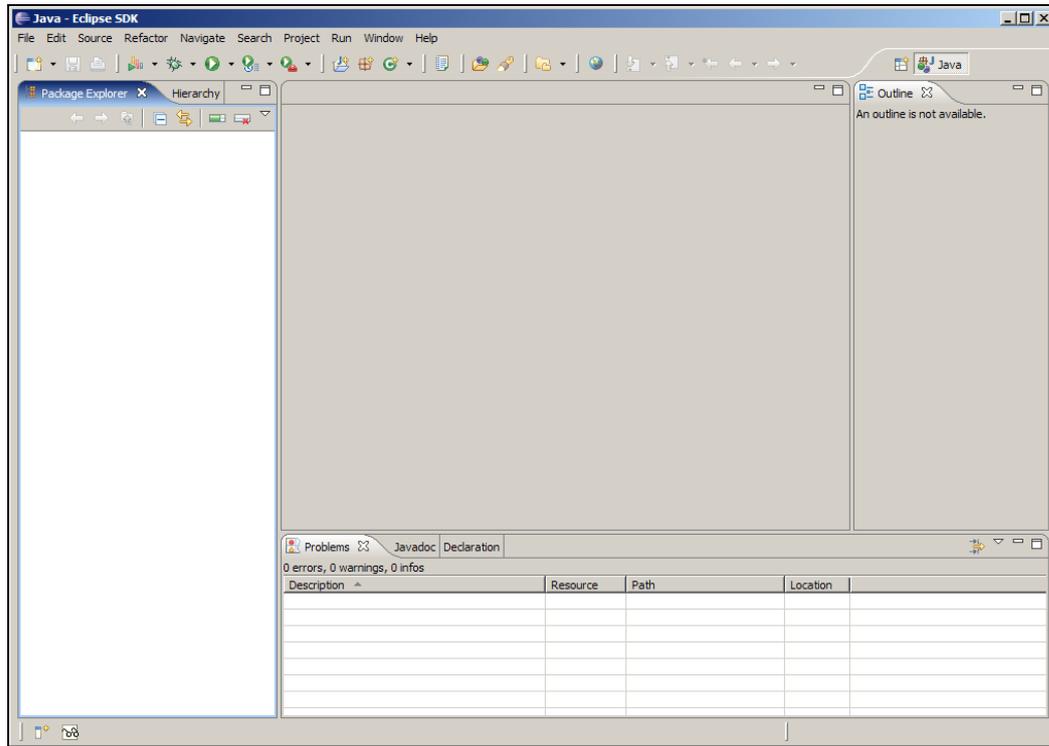


Slide 2

Slide notes: 在演示中，我们将创建自动化测试项目，构建三个测试用例和一个测试集，最后运行测试。在这个例子中，我们将要测试的图形界面实际就是 **Eclipse** 本身。目前，**Eclipse** 的图形界面测试仍在发展当中，我们可以针对 **Eclipse** 本身，**Eclipse** 插件和富客户端应用程序进行测试。测试所需的插件可从屏幕上显示的地址下载得到。

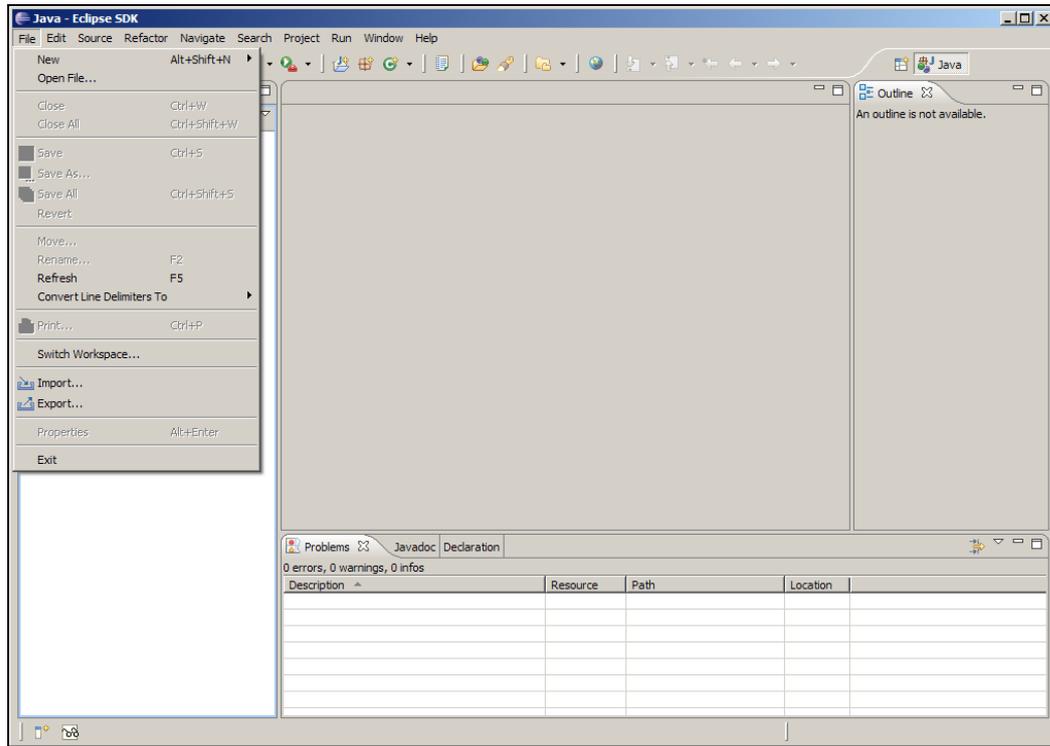
Text Captions:

<http://www.eclipse.org/tptp/home/downloads/#StandaloneOfferings>



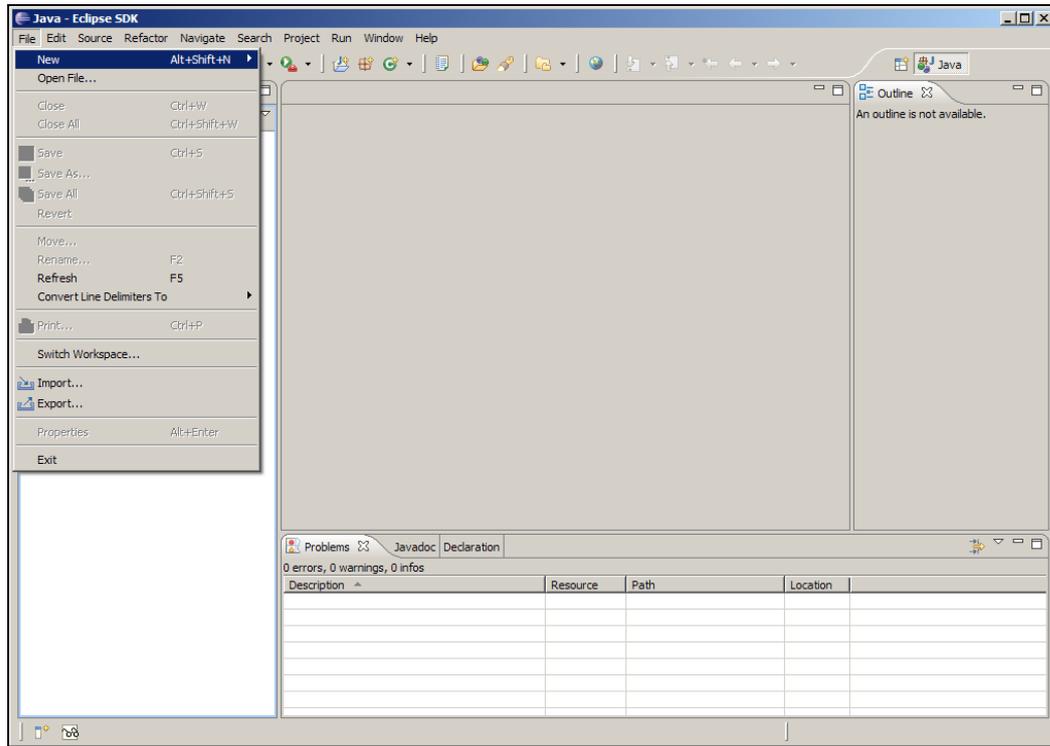
Slide 3

Slide notes: 第一步是创建一个新的插件项目来容纳我们的测试，选择主菜单中的文件。



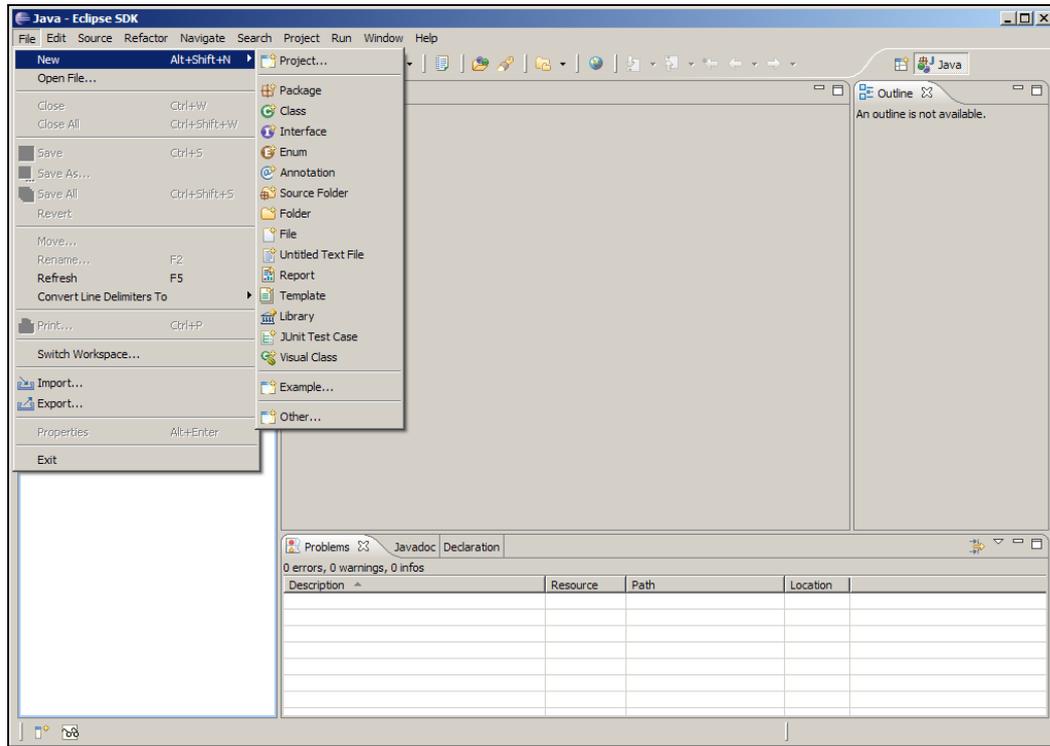
Slide 4

Slide notes: 点击新建 > 项目...



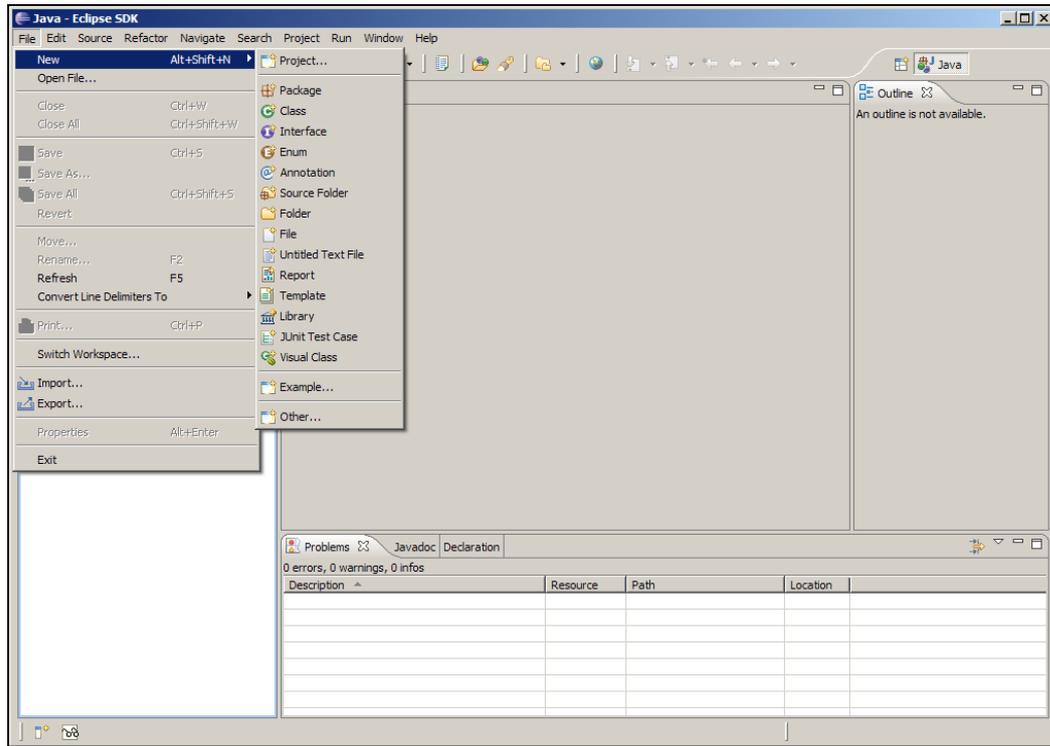
Slide 5

Slide notes:



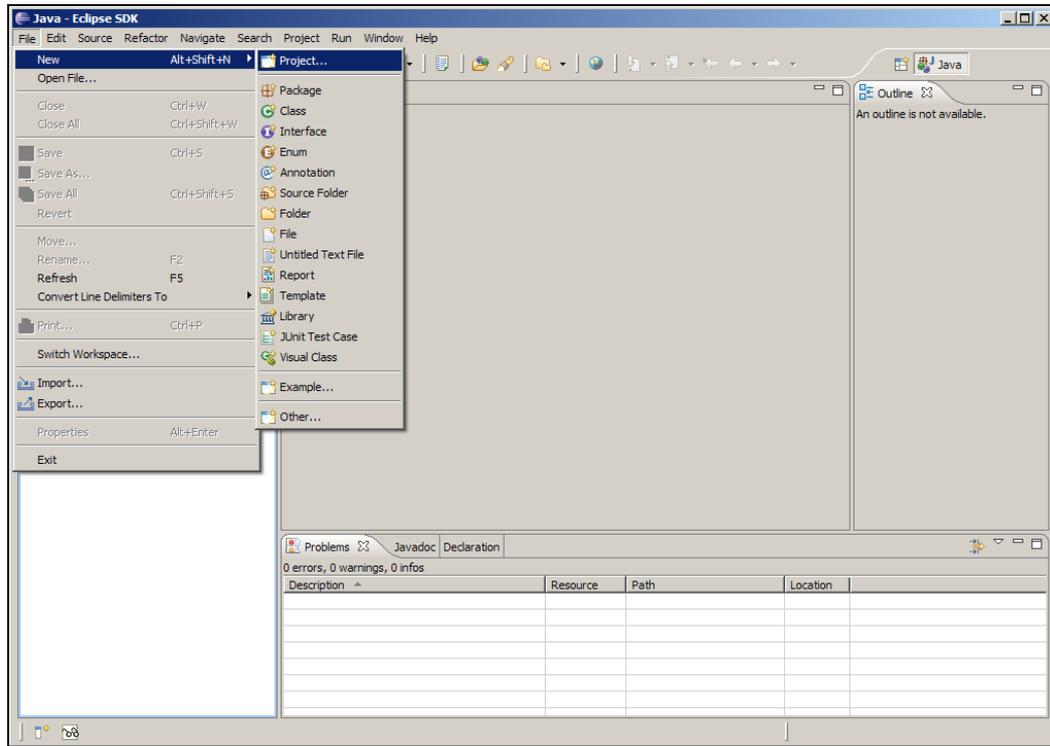
Slide 6

Slide notes:



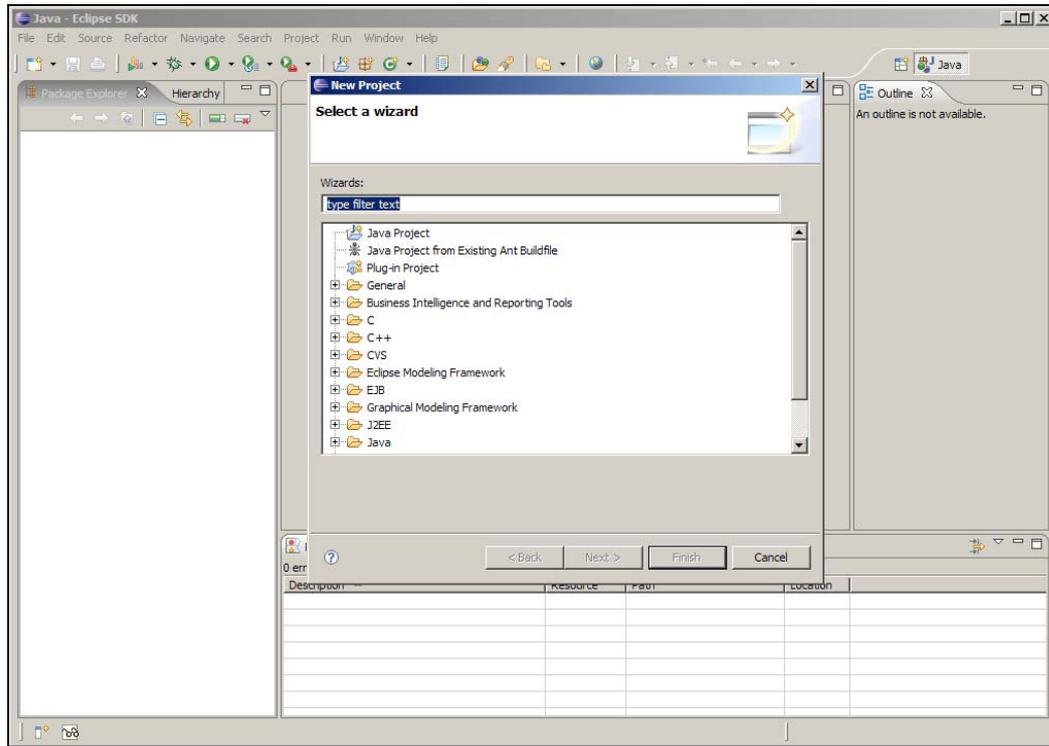
Slide 7

Slide notes:



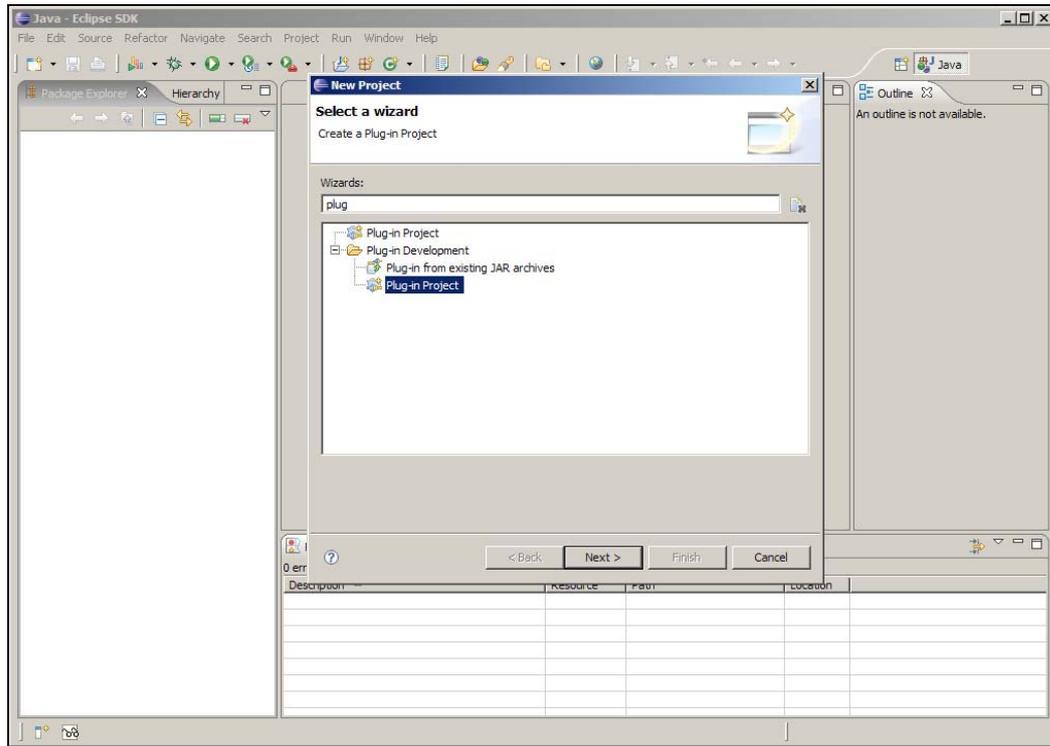
Slide 8

Slide notes:



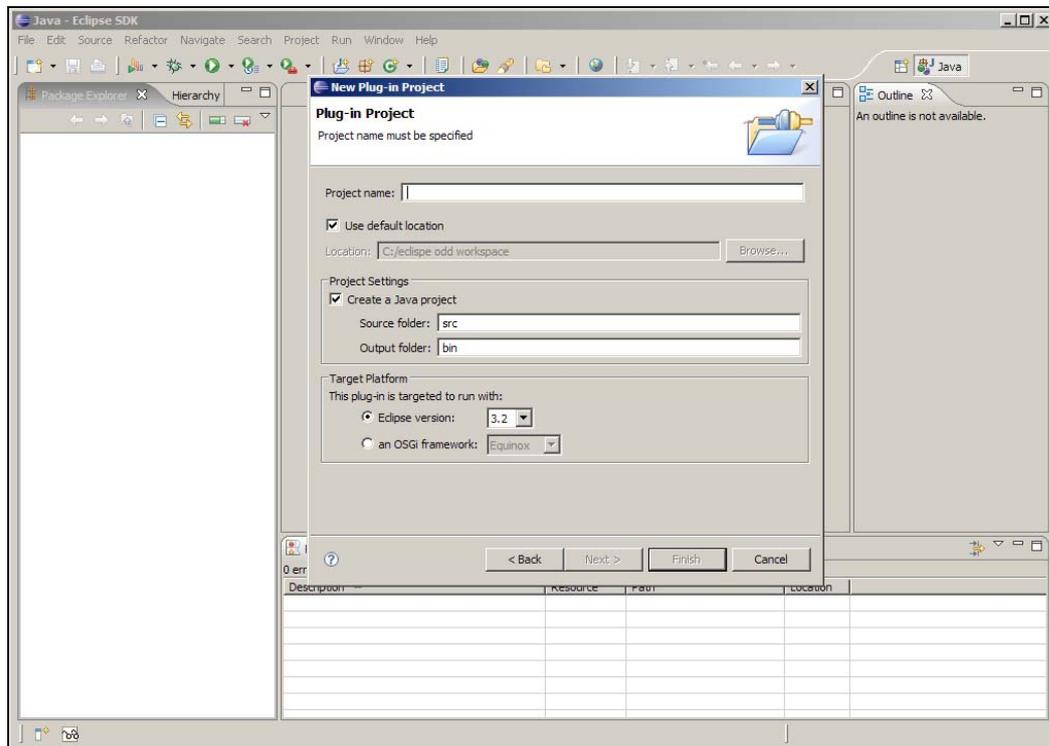
Slide 9

Slide notes: 找到插件项目。



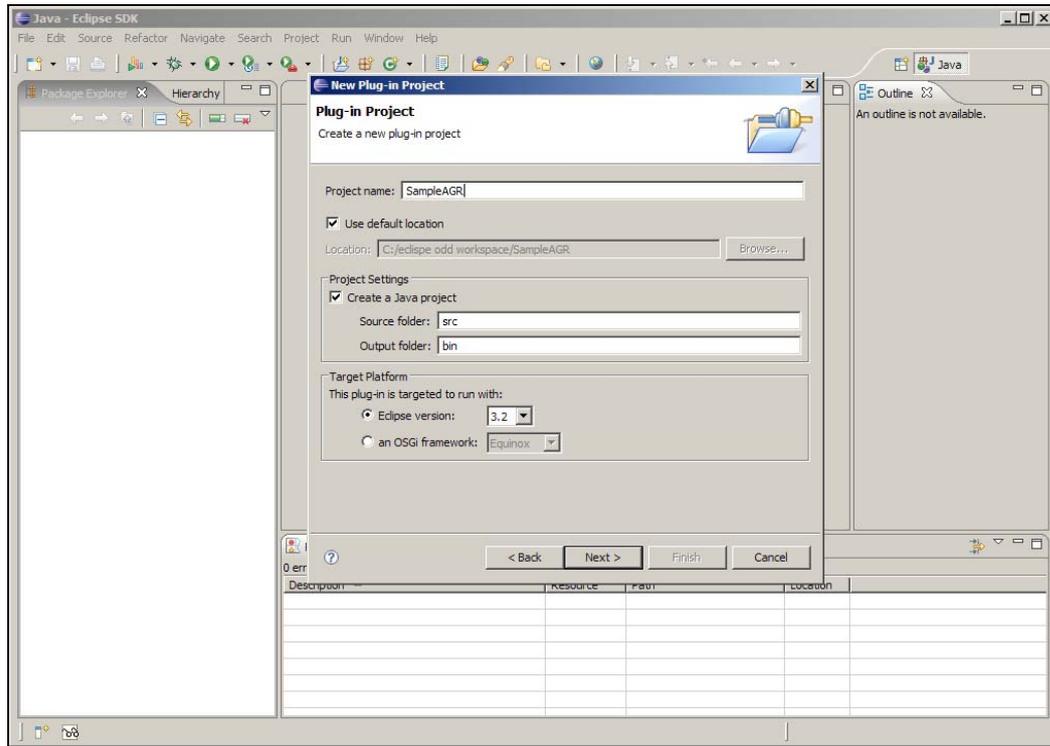
Slide 10

Slide notes: 点击下一步。



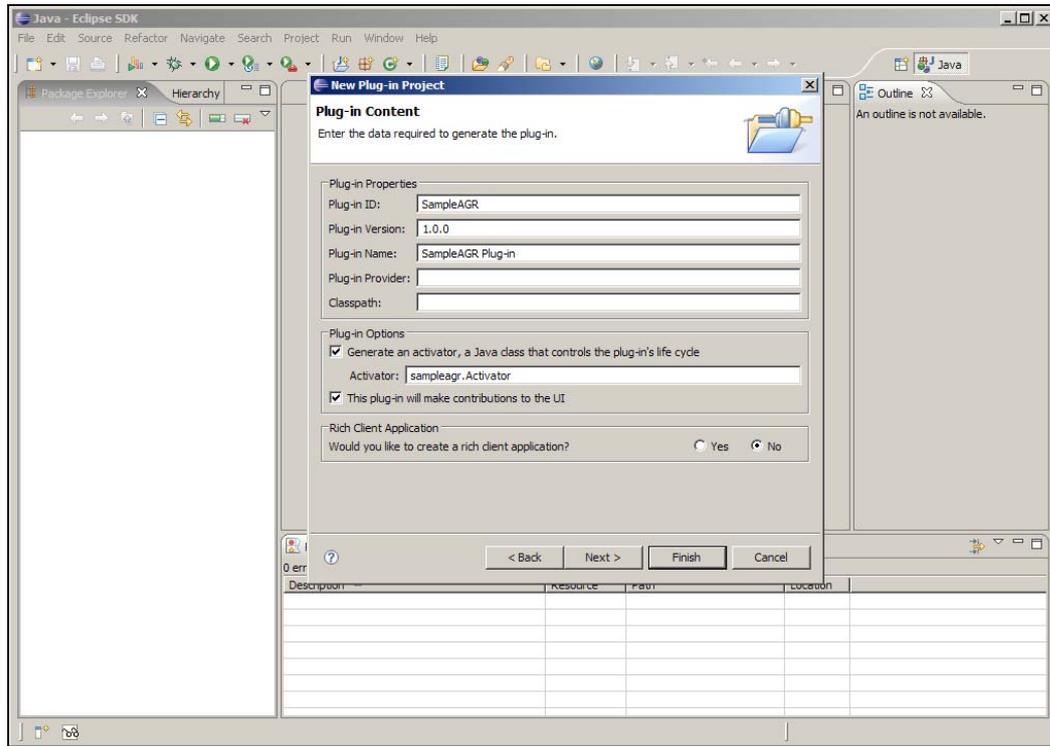
Slide 11

Slide notes: 指定项目名称为 **SampleAGR**，其他选项取默认值，点击下一步。



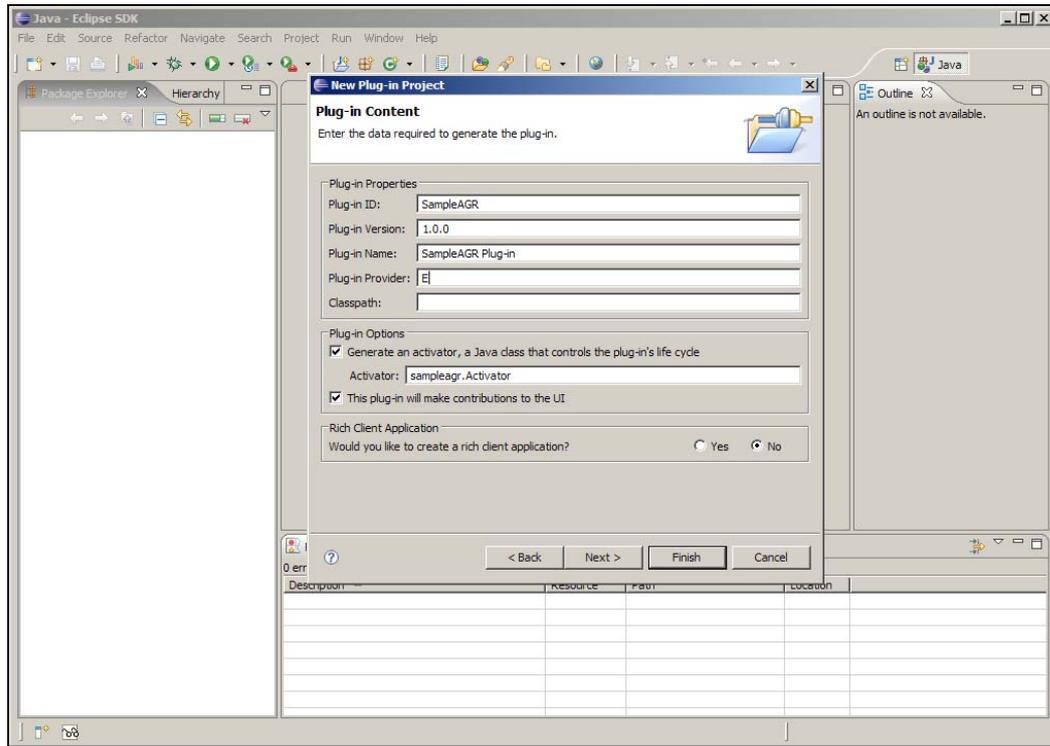
Slide 12

Slide notes:



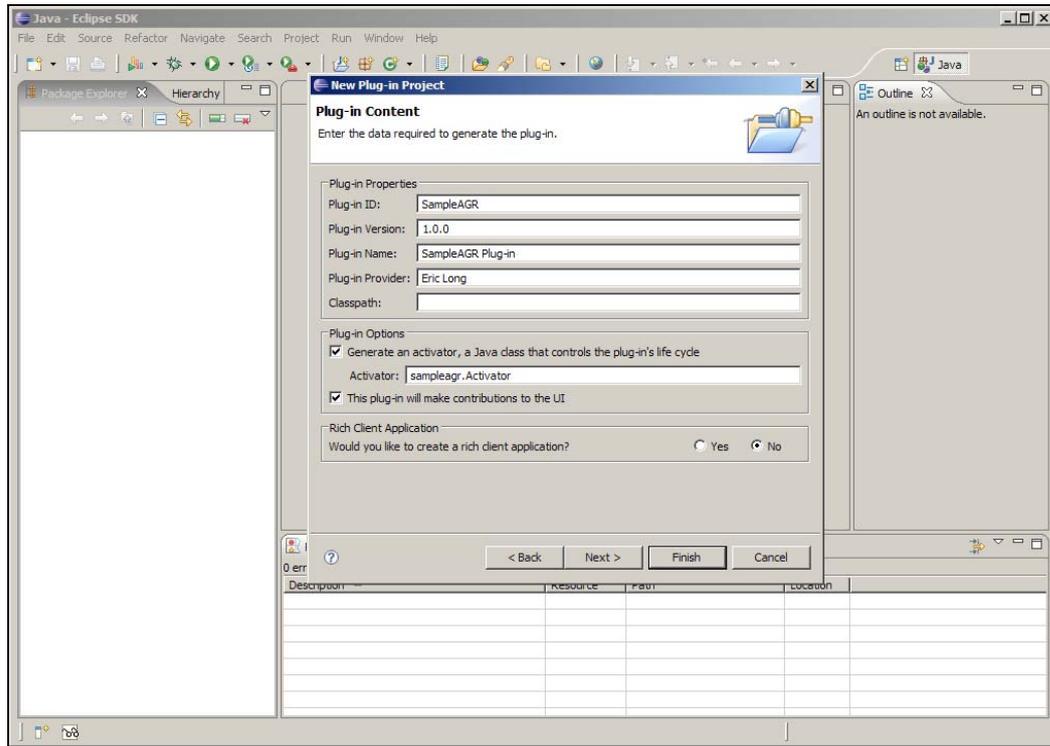
Slide 13

Slide notes: 指定插件提供者，点击下一步。



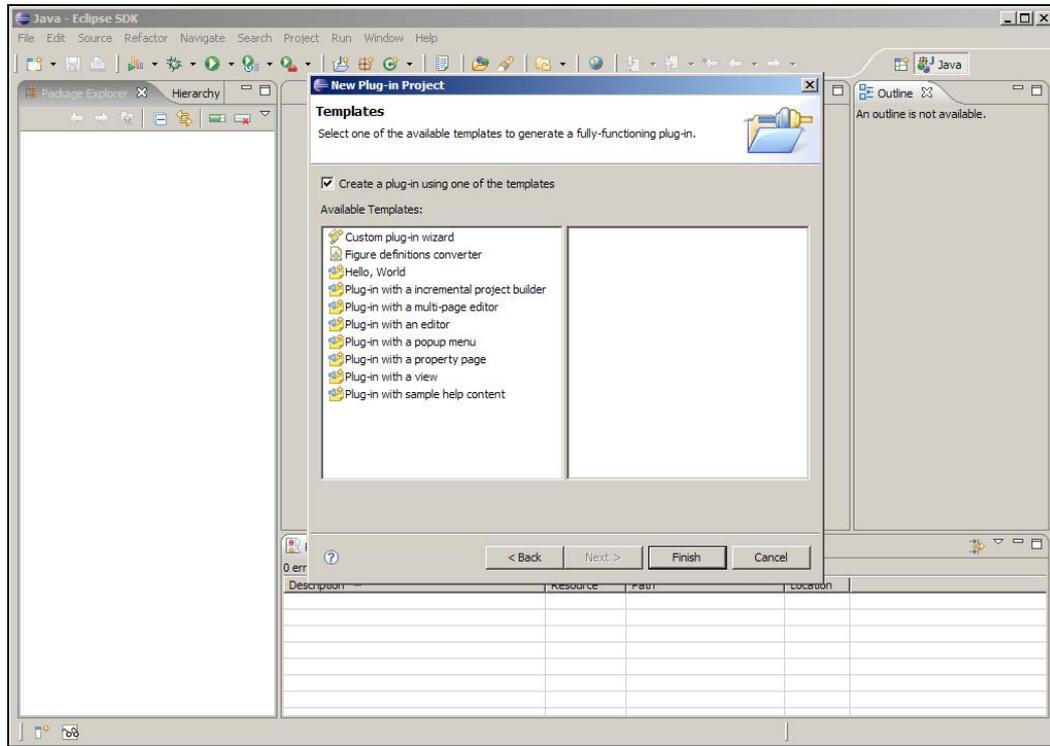
Slide 14

Slide notes:



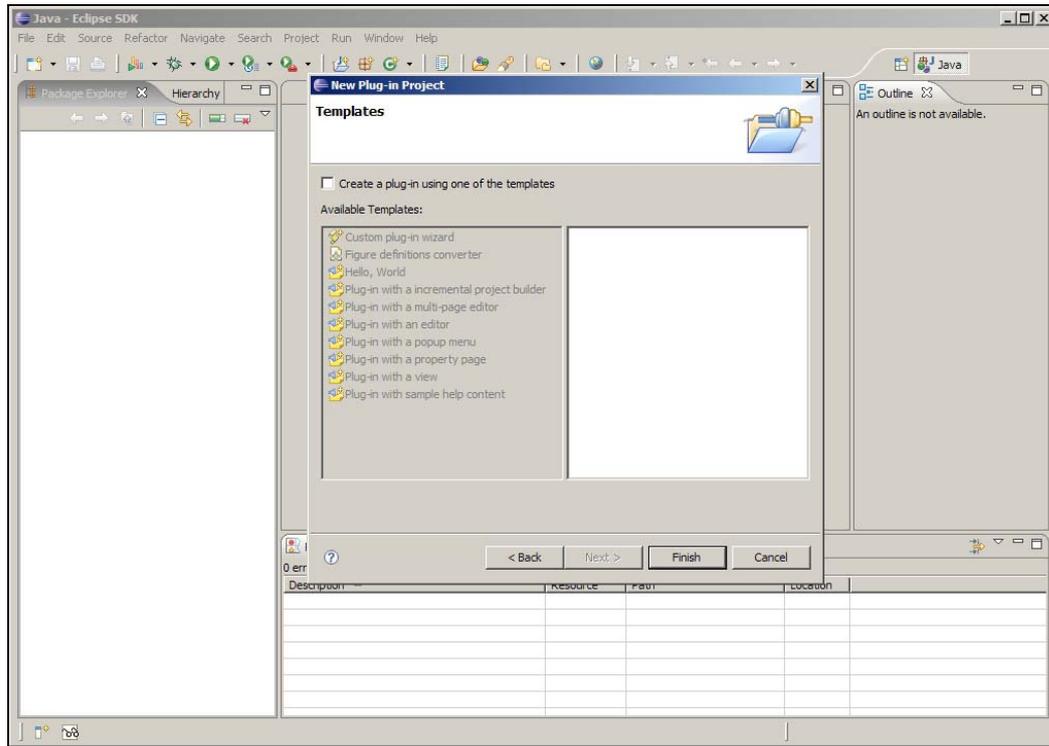
Slide 15

Slide notes:



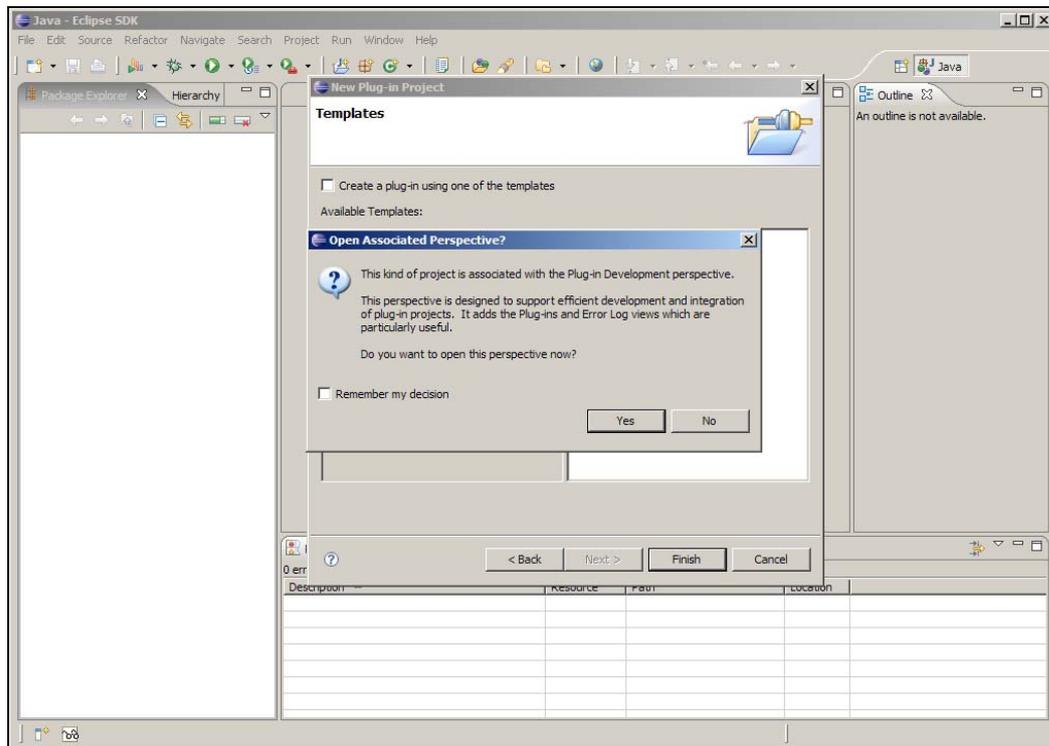
Slide 16

Slide notes: 取消使用模板创建插件的选项， 点击完成。



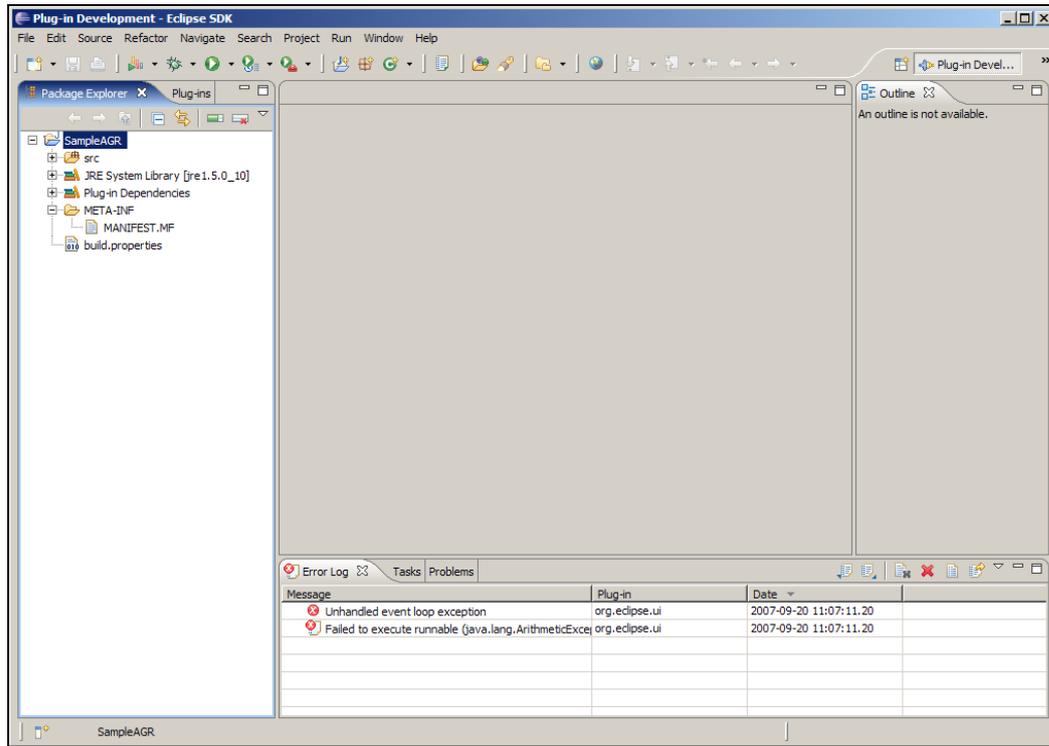
Slide 17

Slide notes:



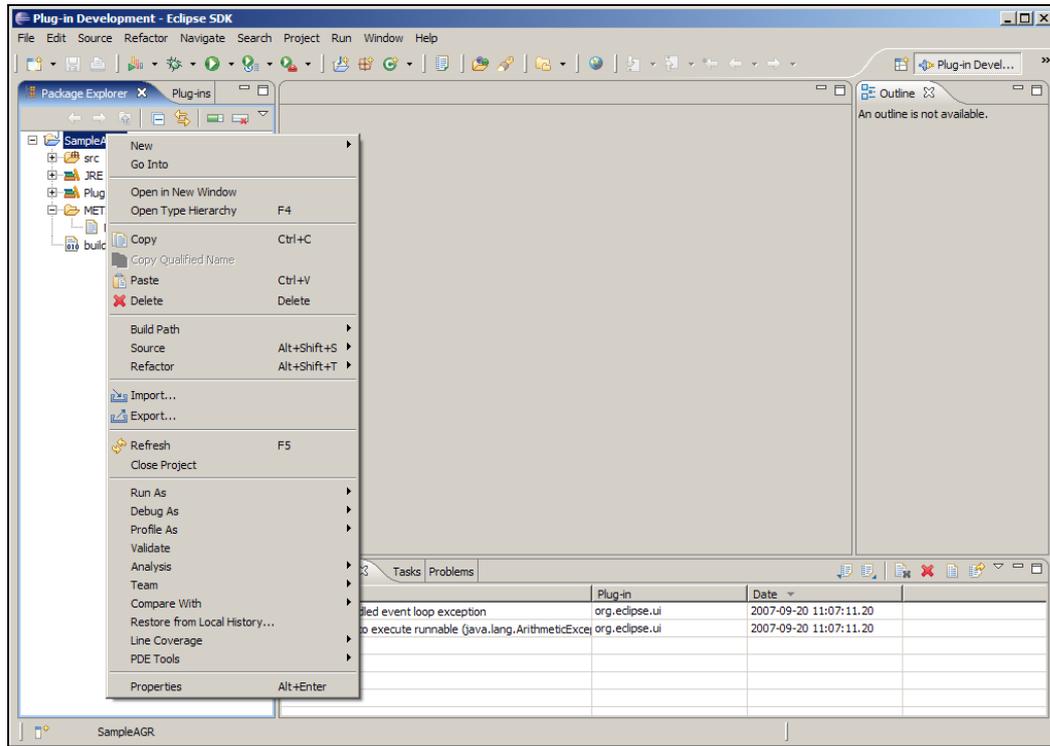
Slide 18

Slide notes: 如果出现切换透视图的提示，点击是。



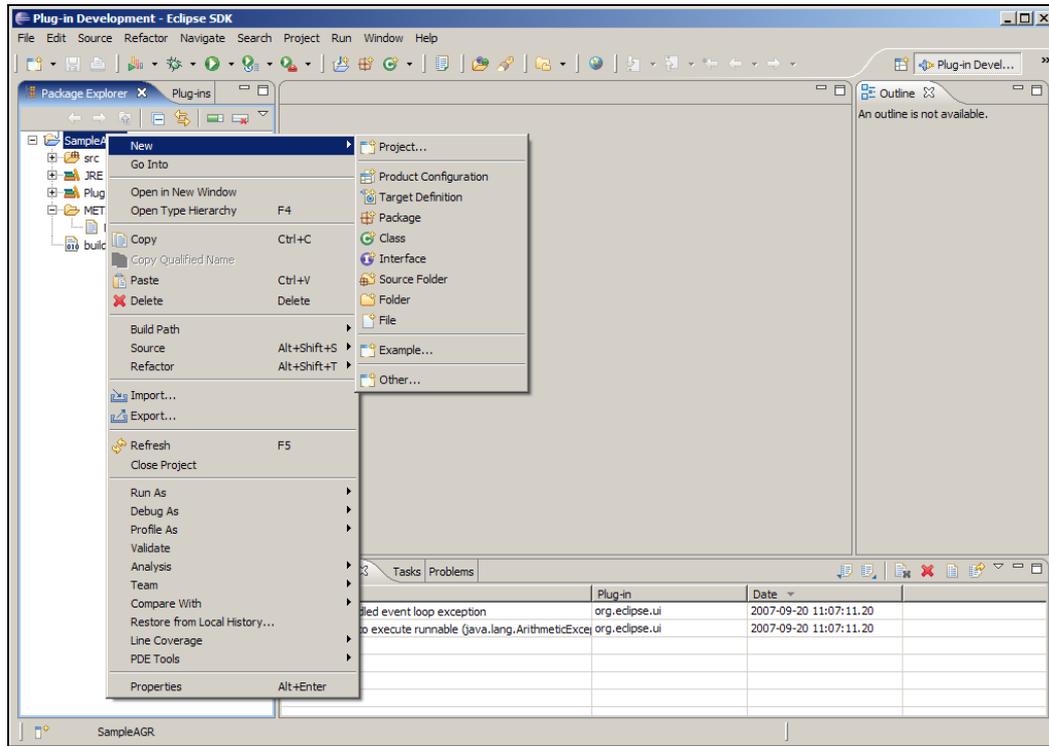
Slide 19

Slide notes: 接下来需要创建一个自动化图形界面测试。在 Java 包浏览器中，右键单击 SampleAGR 项目。



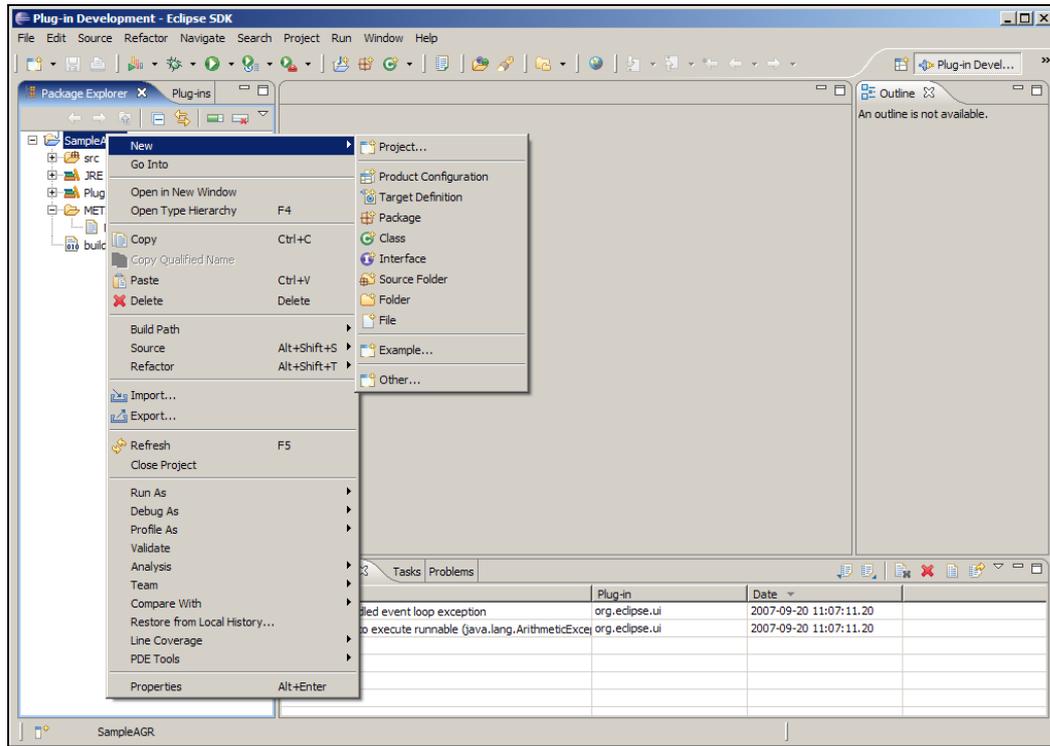
Slide 20

Slide notes: 点击新建 > 其他。



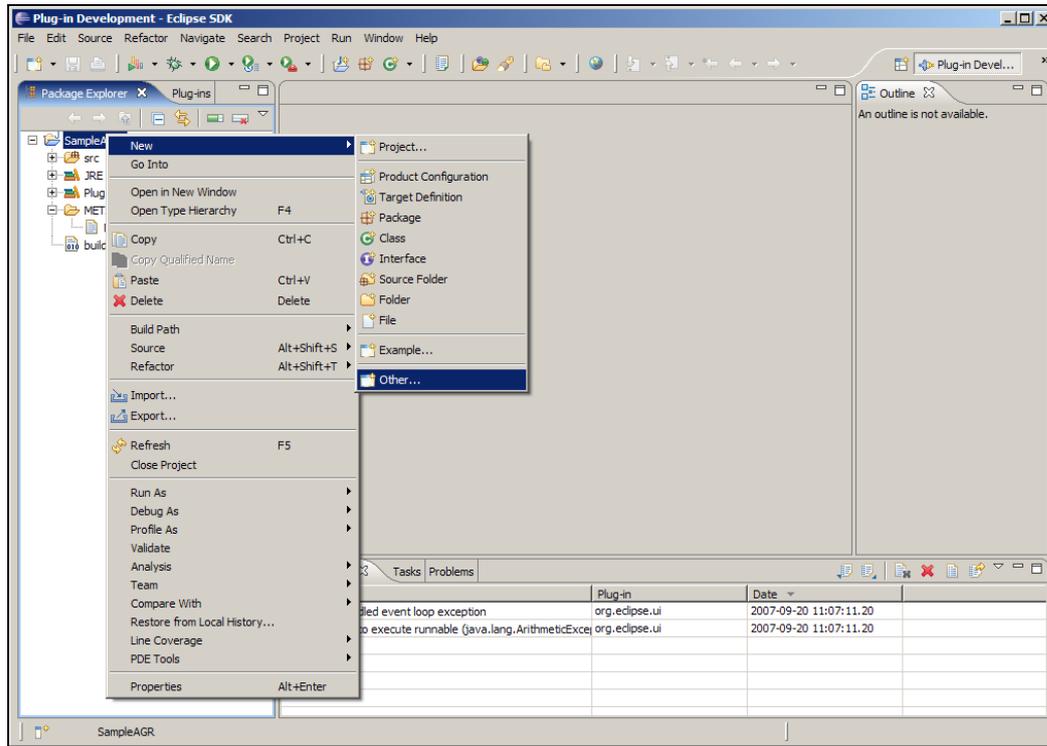
Slide 21

Slide notes:



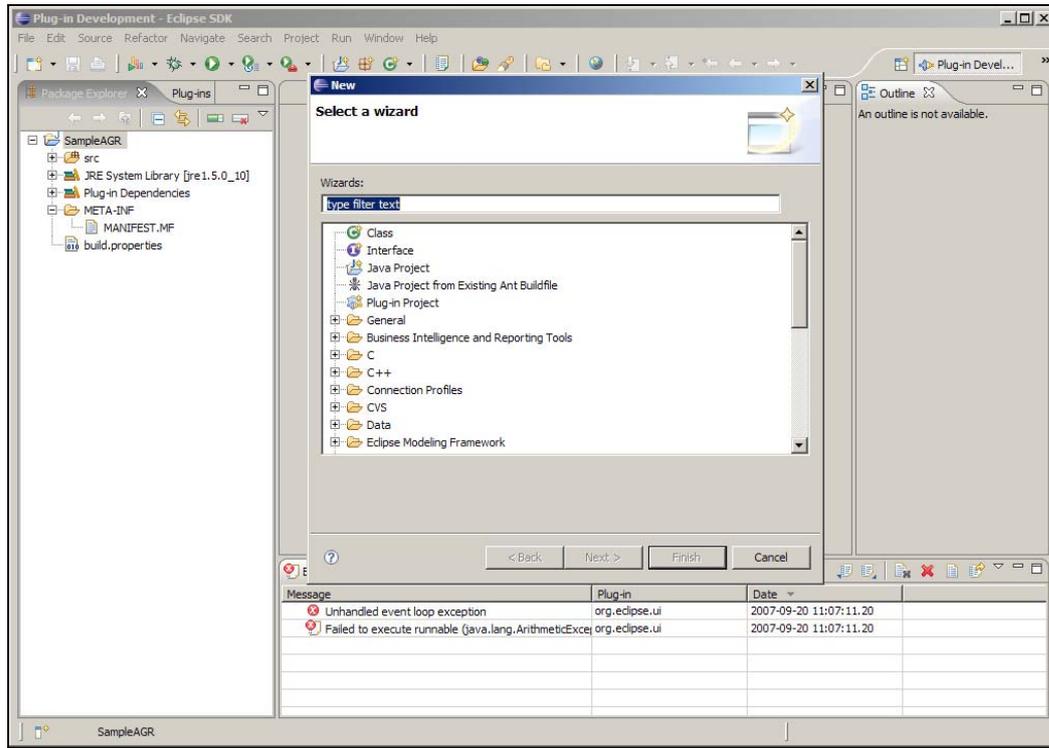
Slide 22

Slide notes:



Slide 23

Slide notes:



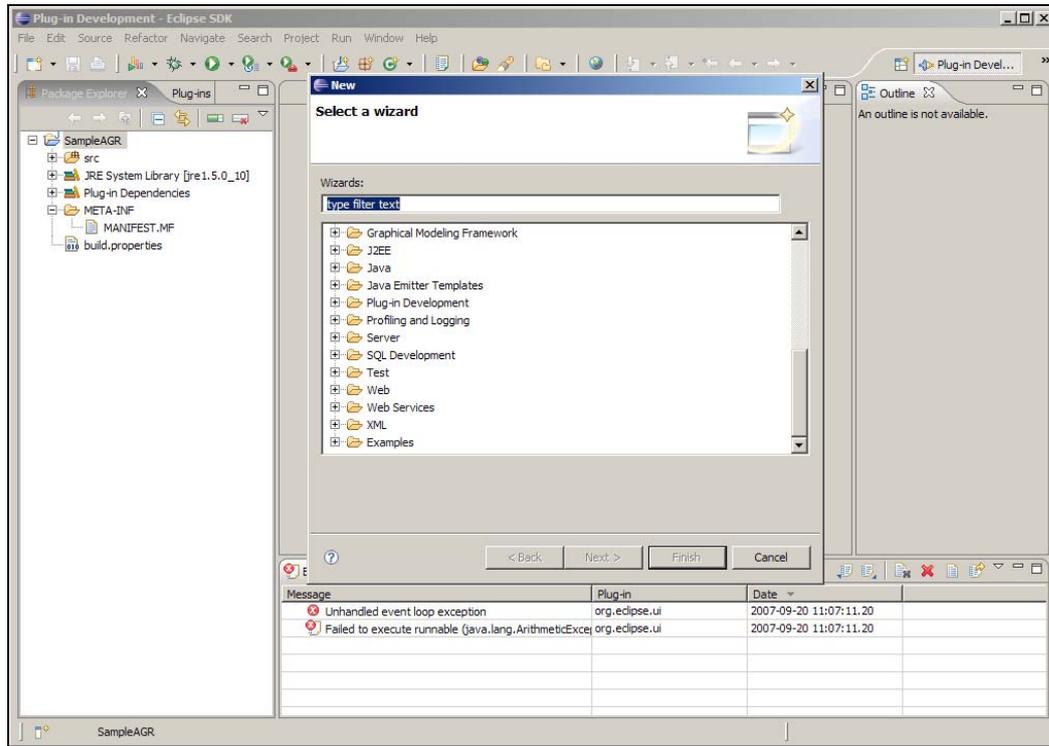
Slide 24

Slide notes: 从向导中找到并展开测试。



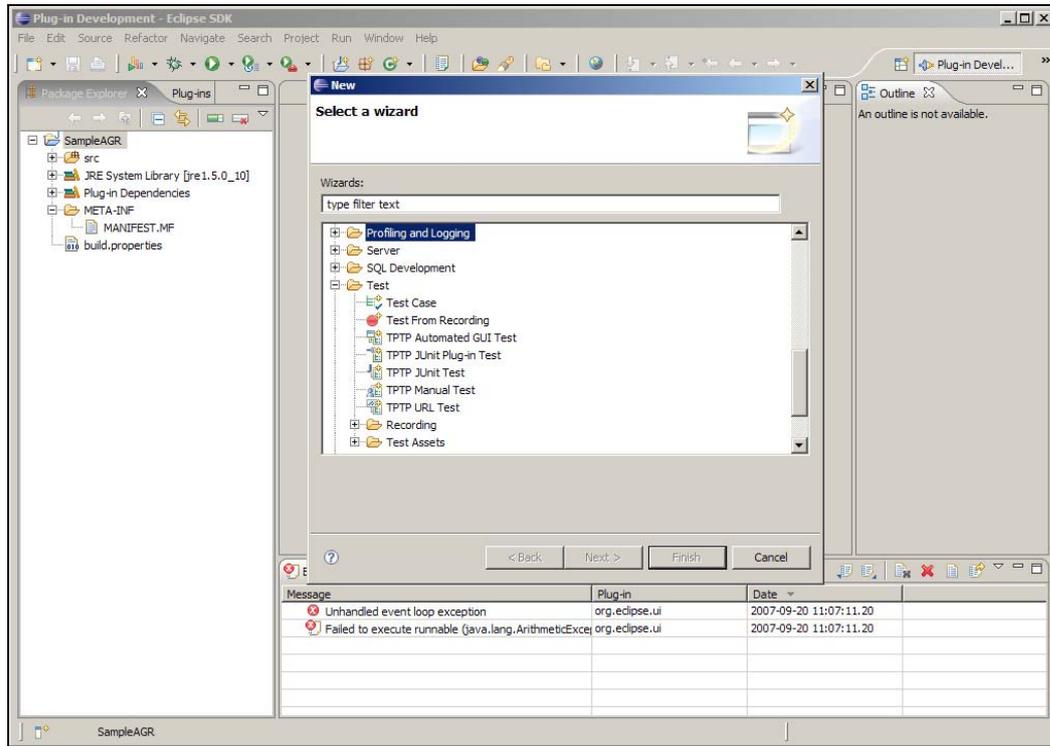
Slide 25

Slide notes:



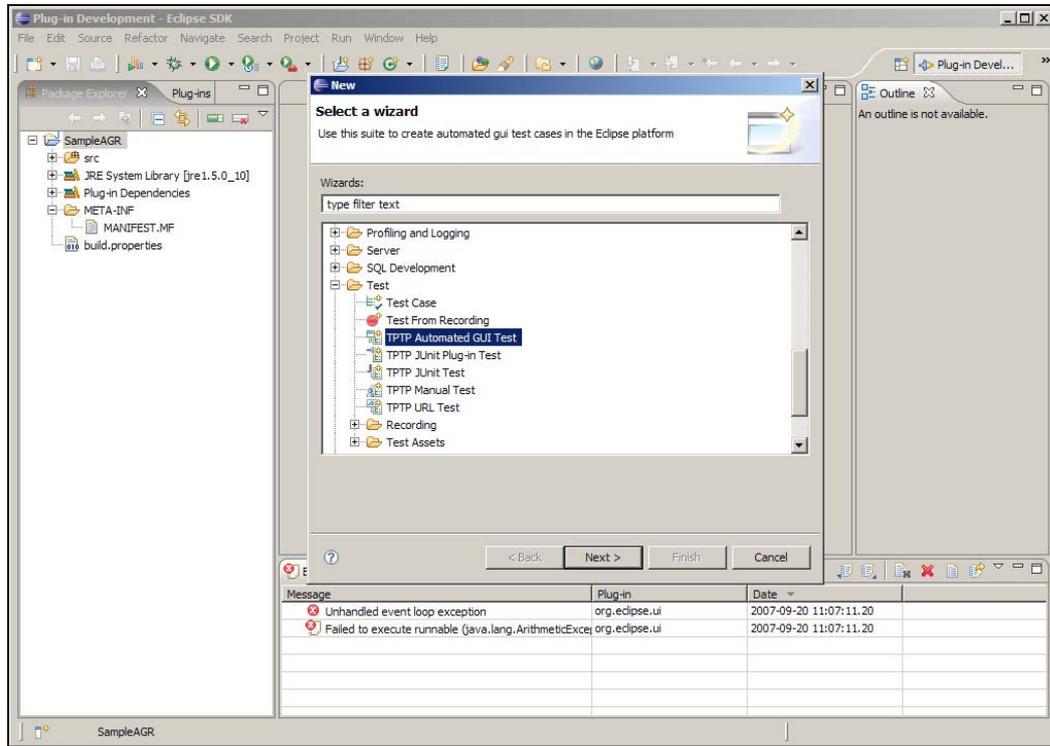
Slide 26

Slide notes:



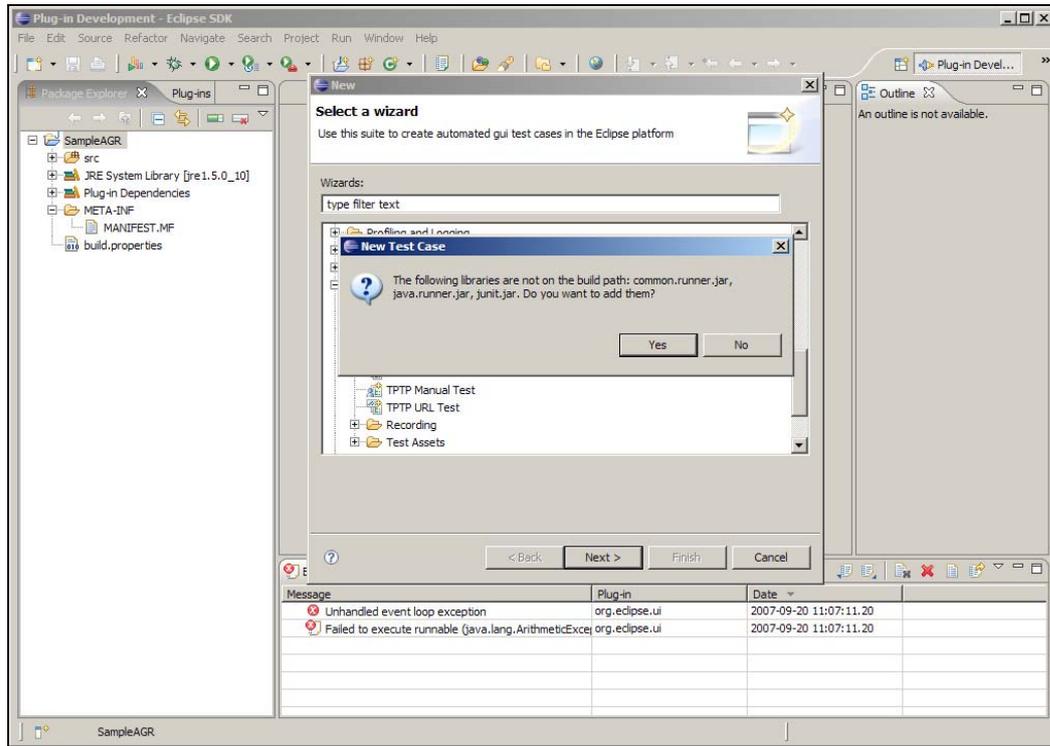
Slide 27

Slide notes: 选择 TPTP 自动化图形界面测试，点击下一步。



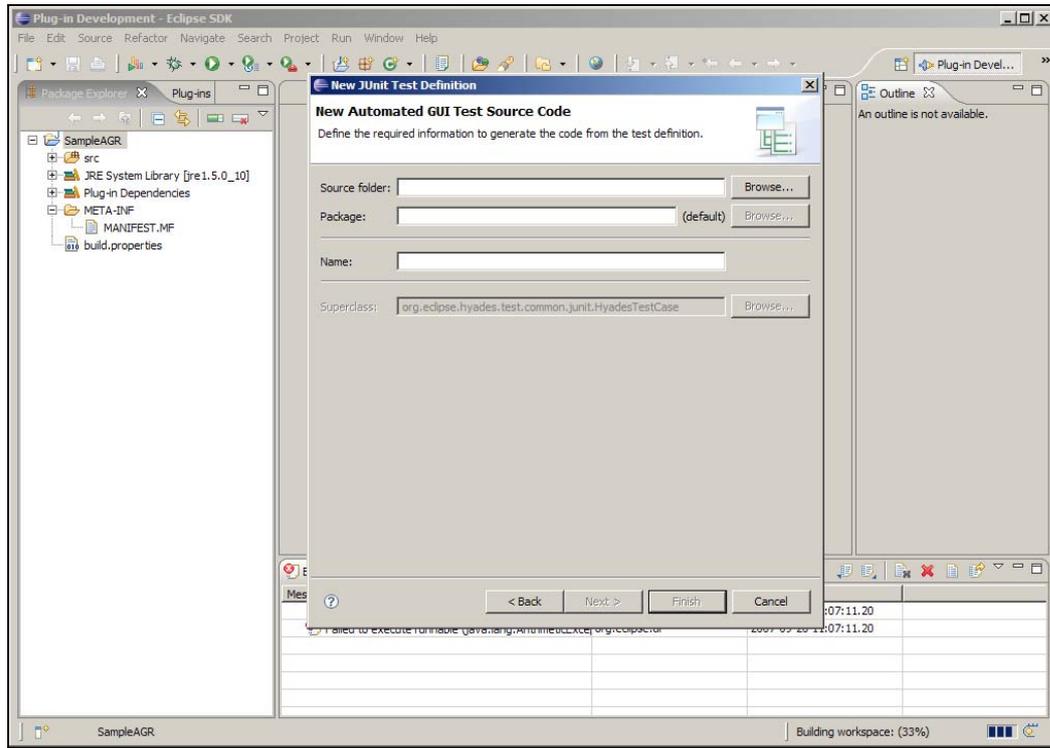
Slide 28

Slide notes:



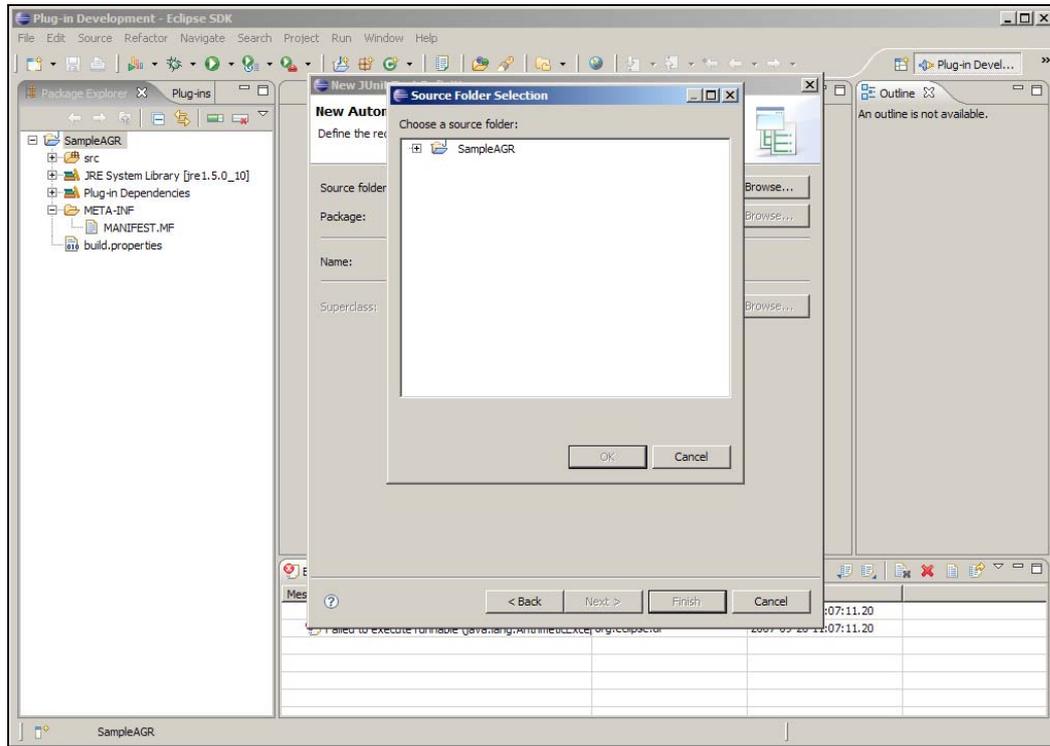
Slide 29

Slide notes: 如果出现添加库文件的对话框，点击是。



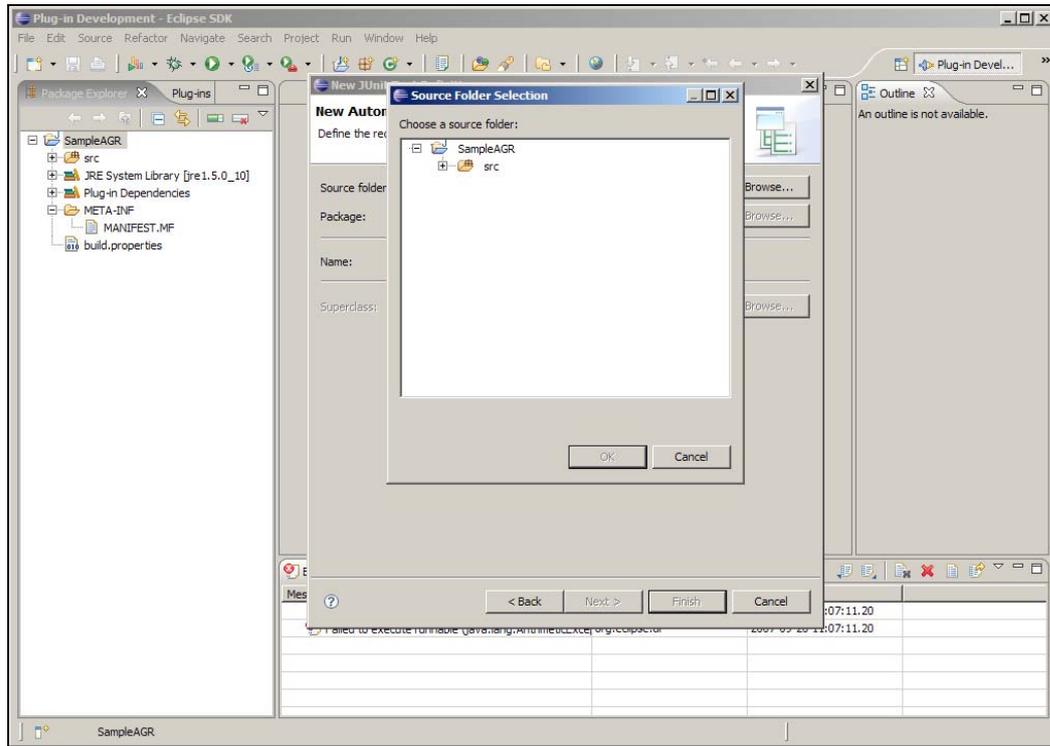
Slide 30

Slide notes: 点击源文件夹旁边的浏览按钮。



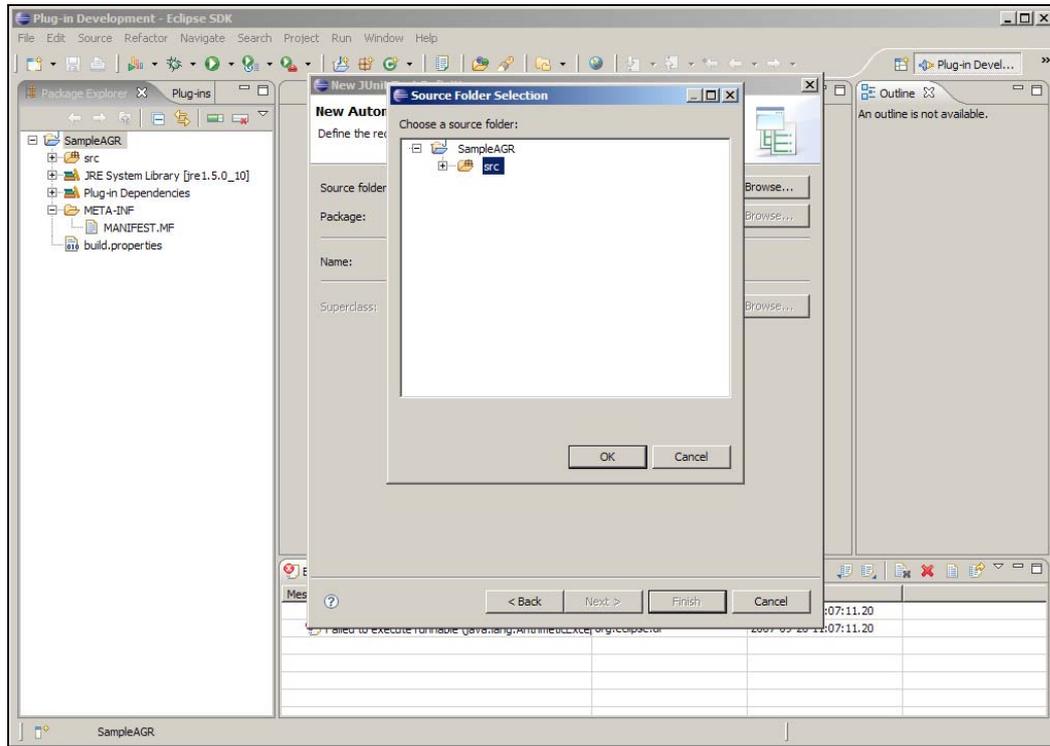
Slide 31

Slide notes: 展开 SampleAGR 找到 src 目录。



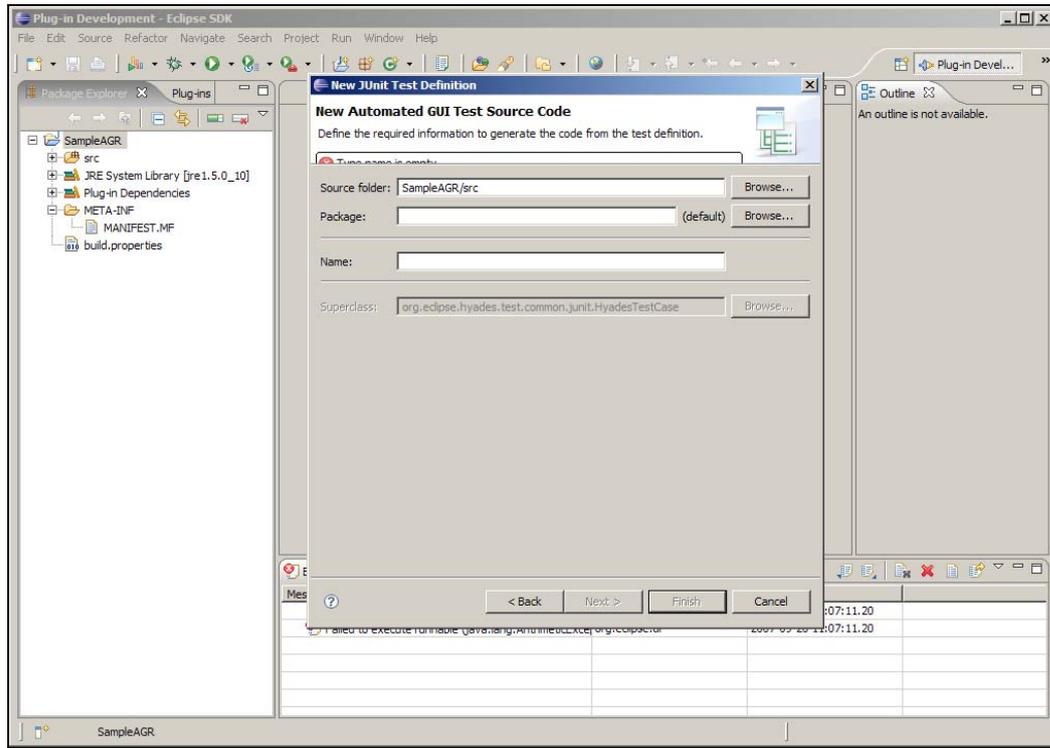
Slide 32

Slide notes:



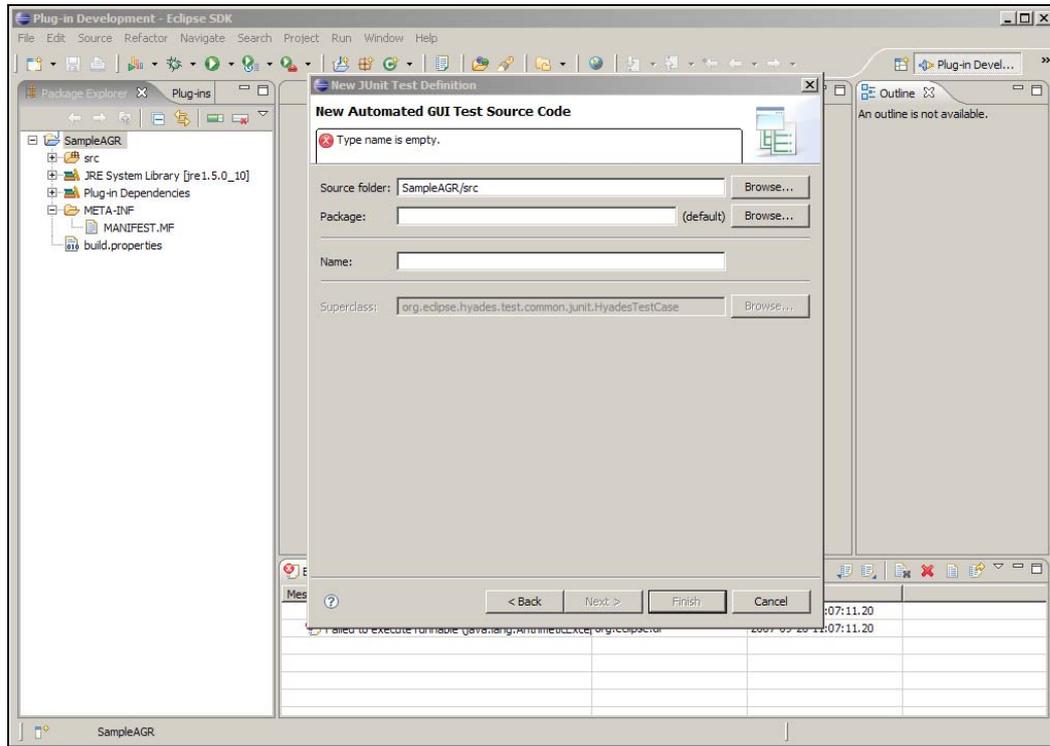
Slide 33

Slide notes: 点击确定。



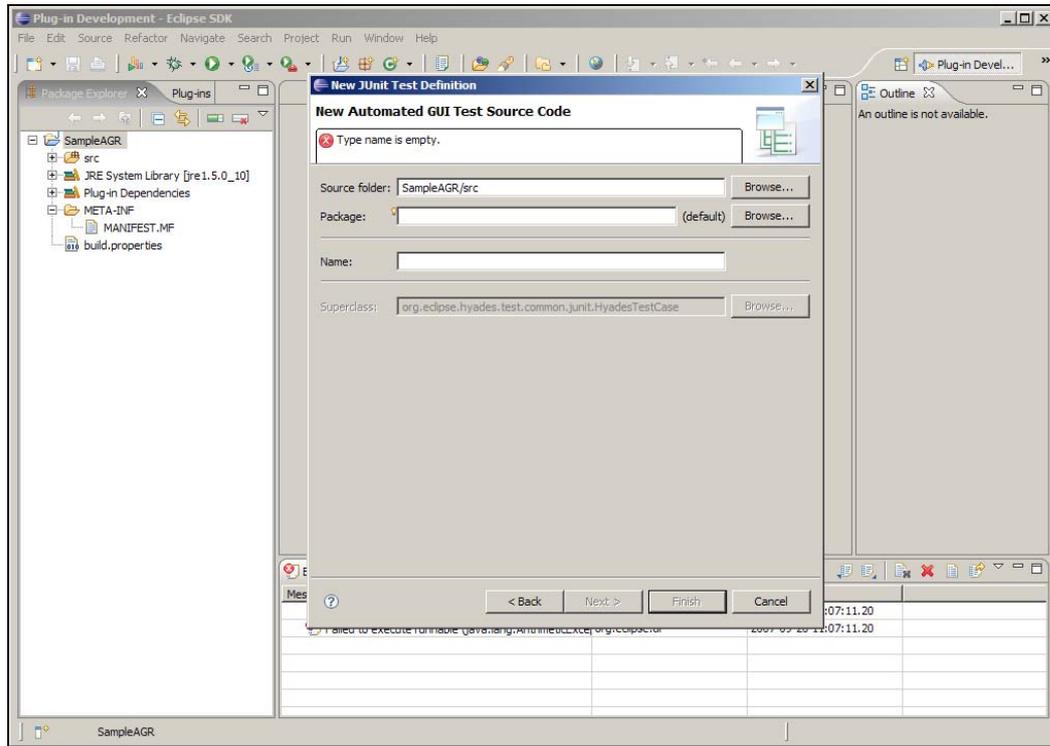
Slide 34

Slide notes: 给定包的名称。



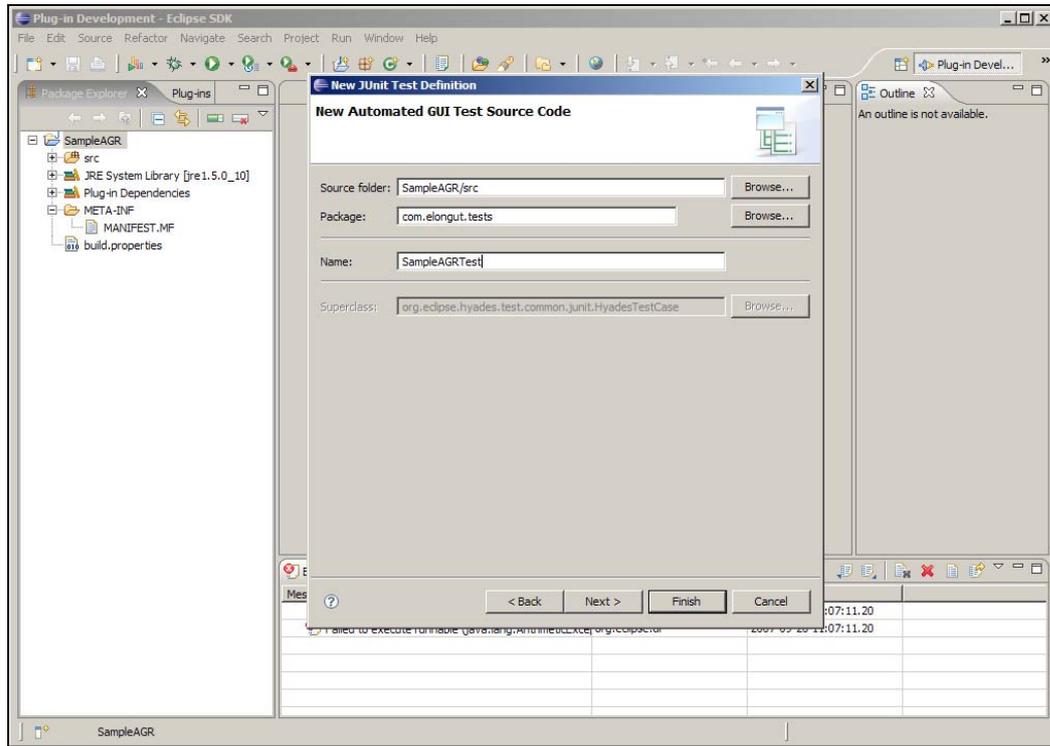
Slide 35

Slide notes:



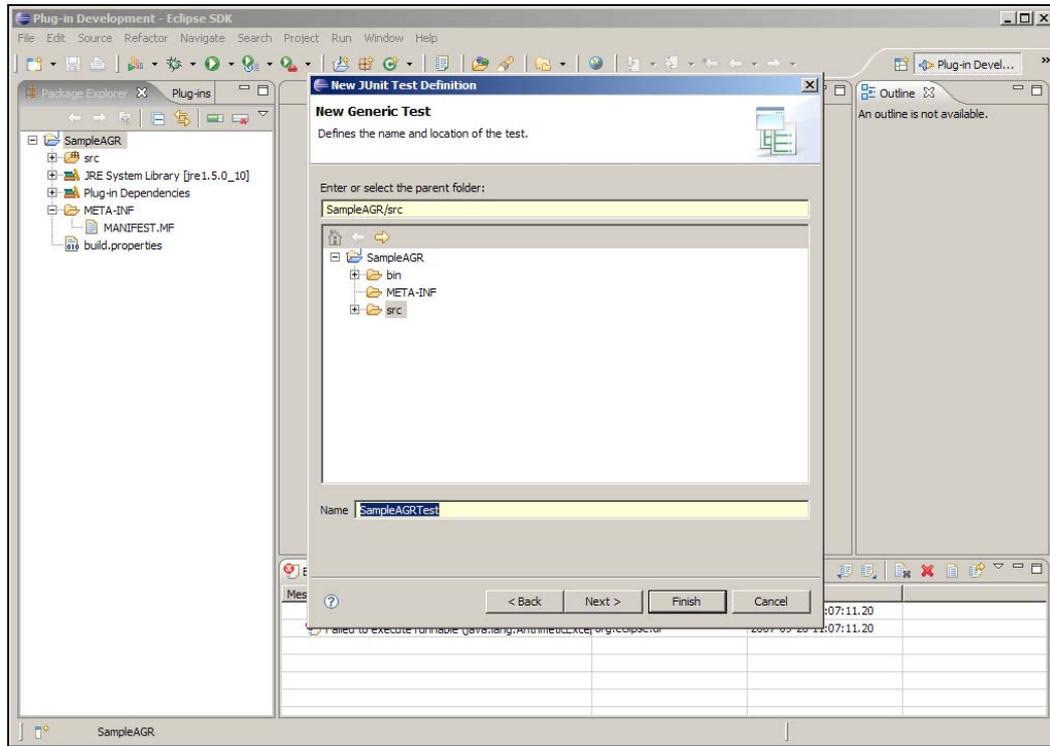
Slide 36

Slide notes: 测试名称为 SampleAGRTTest。



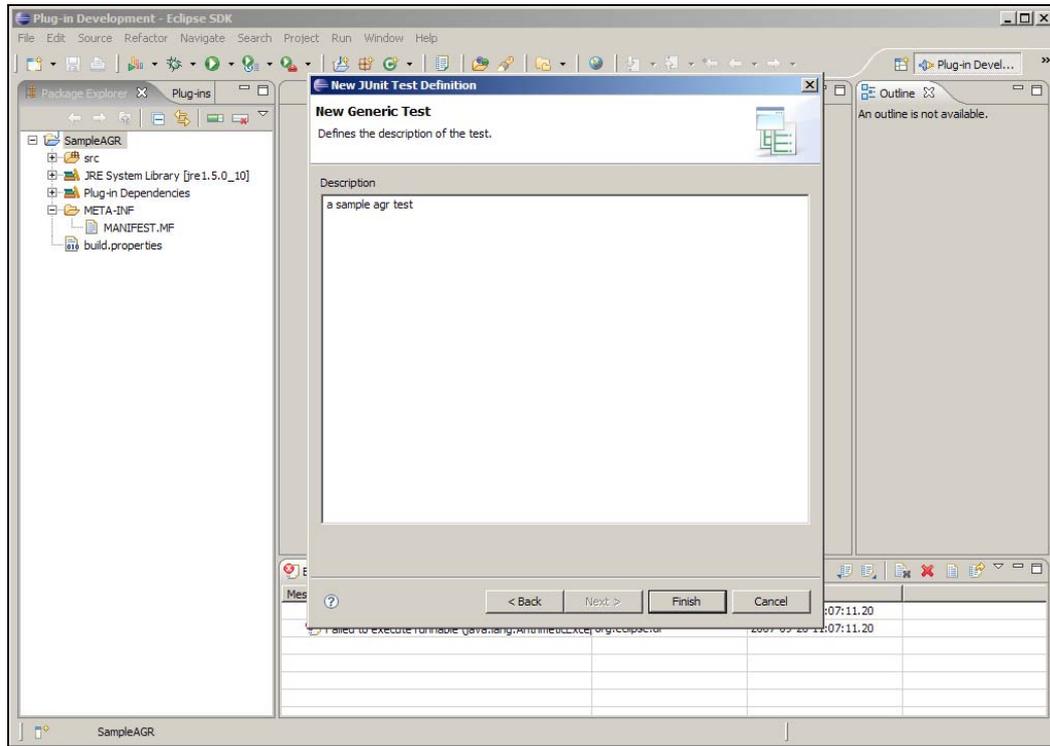
Slide 37

Slide notes: 点击下一步。



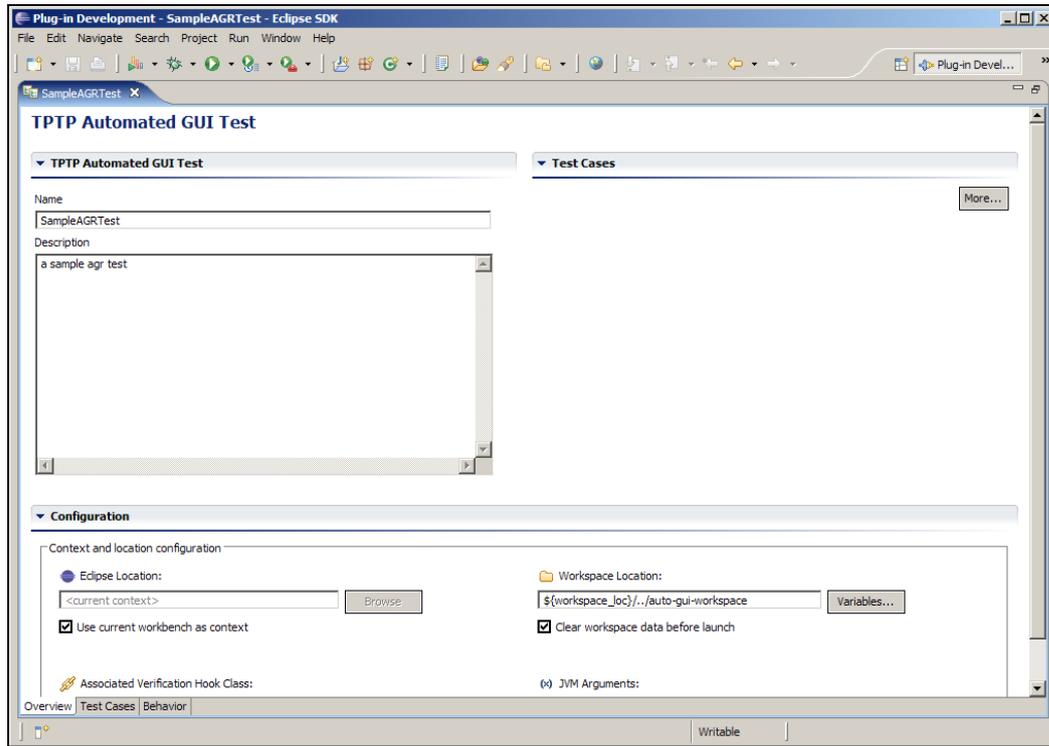
Slide 38

Slide notes: 点击下一步。



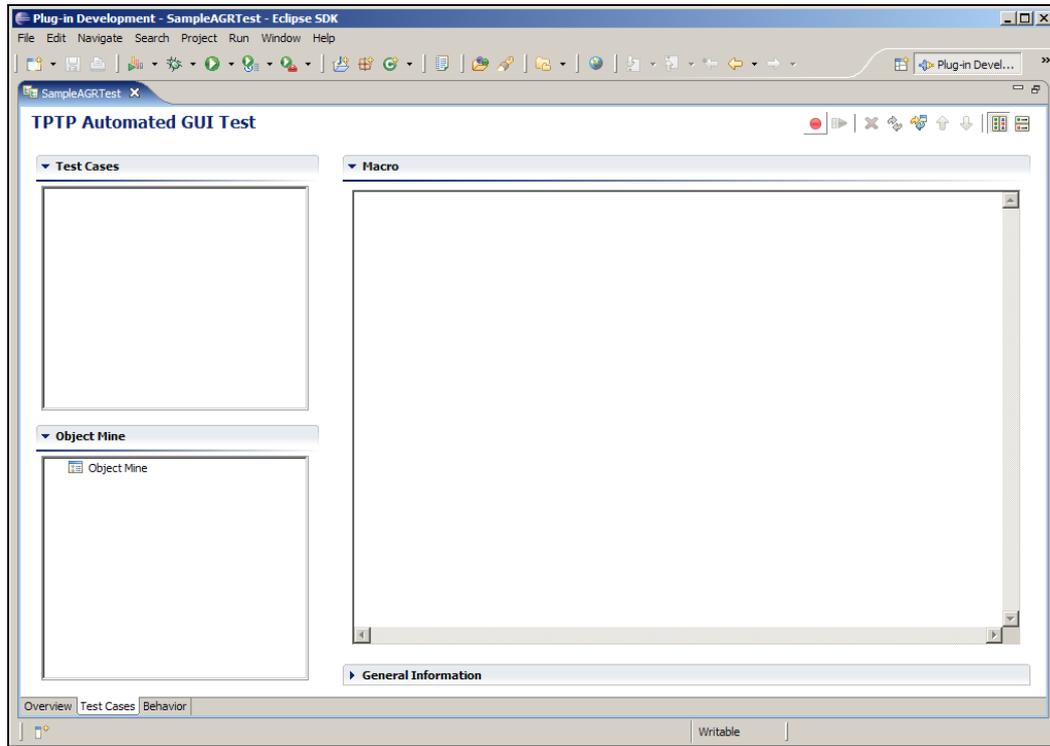
Slide 39

Slide notes: 添加一个说明，点击完成。



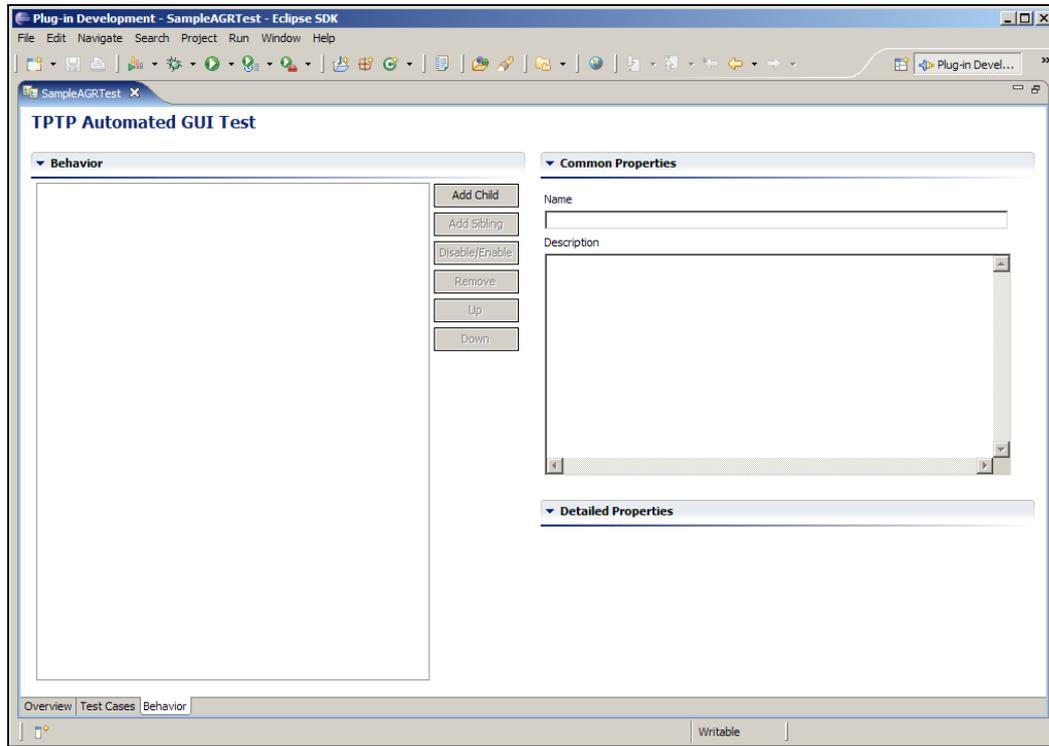
Slide 40

Slide notes: 这里打开的是测试编辑器，可以看到三个页面，概述、测试用例和行为。概述页面描述了测试与配置信息。



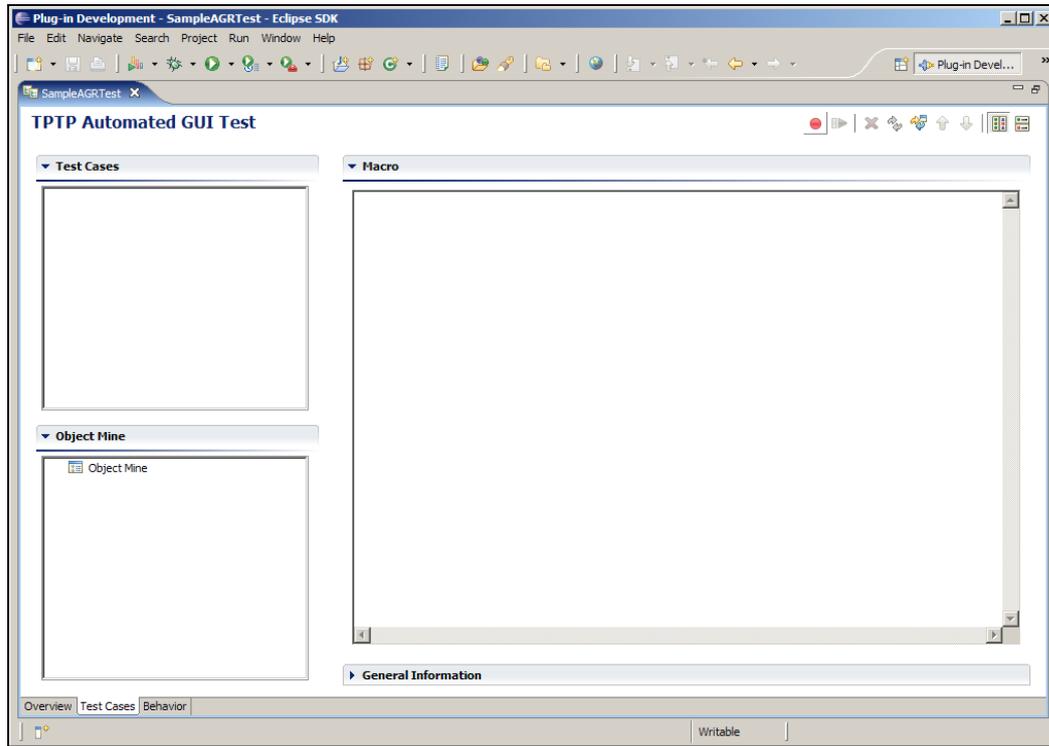
Slide 41

Slide notes: 点击测试用例页面，在这里可以录制和编辑测试用例相关的测试脚本。



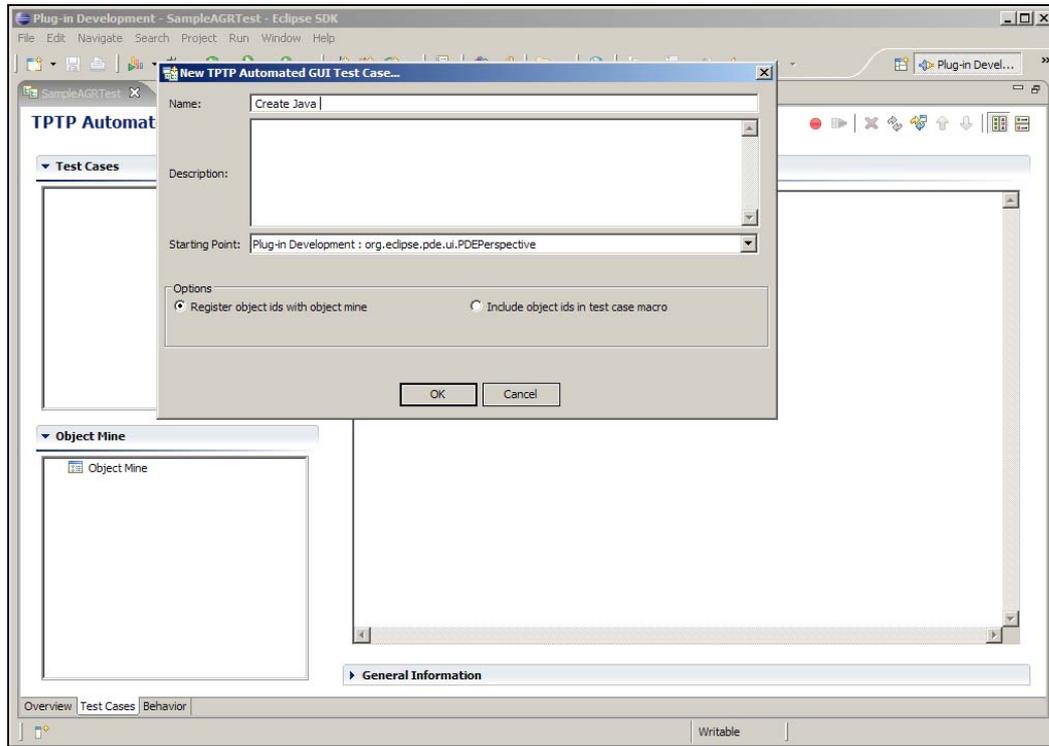
Slide 42

Slide notes: 当创建好测试用例后，就可以在行为页面上把一组测试用例组合成一个测试集。另外也可以从工作空间中的其他项目导入测试用例。



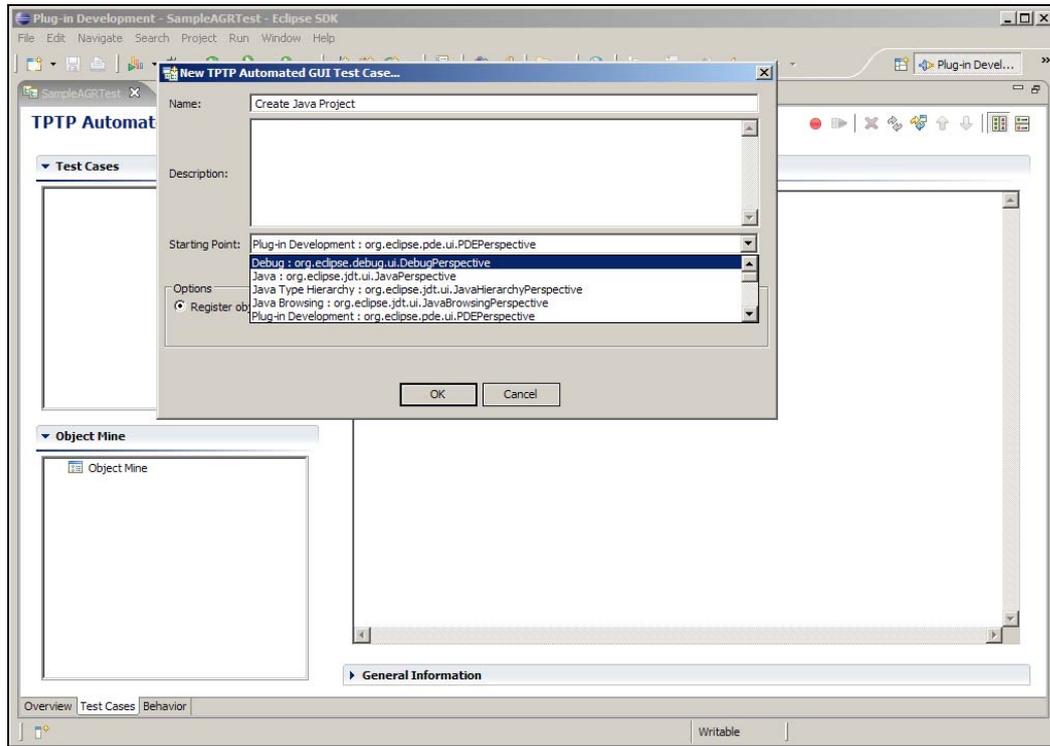
Slide 43

Slide notes: 现在回到测试用例标签页，点击录制按钮。



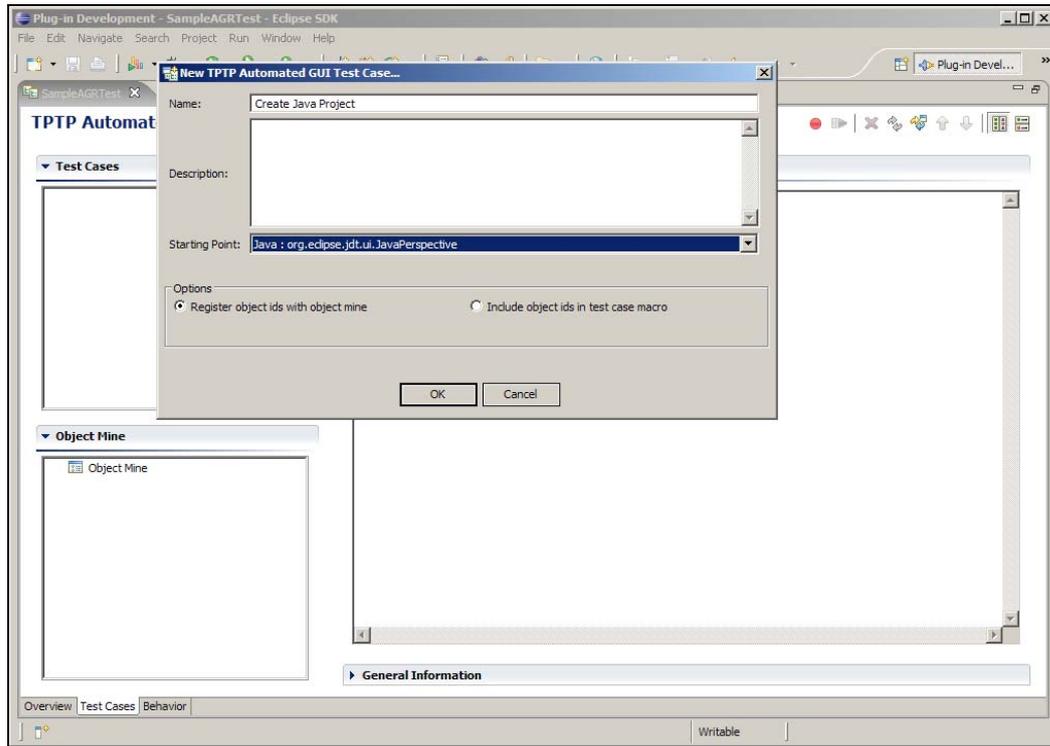
Slide 44

Slide notes: 在开始录制之前，我们需要给测试用例指定一个名称，并给定一个起始点。在这里指定测试用例名称为：**Create Java Project**。



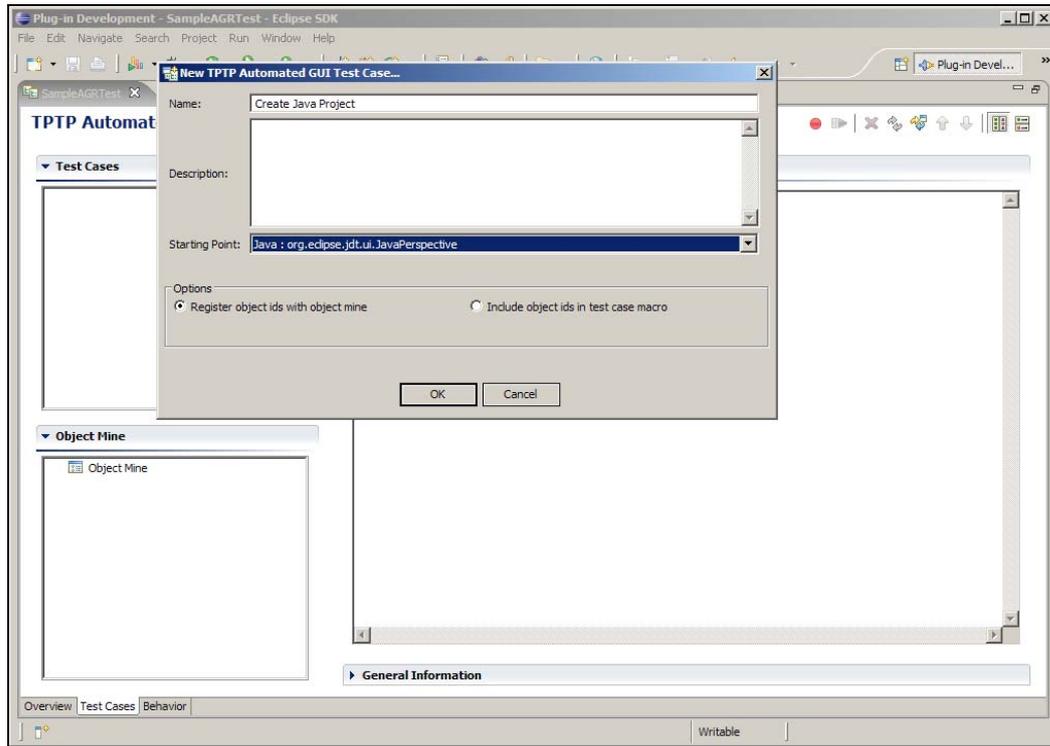
Slide 45

Slide notes: 从下拉菜单中选择 Java: org.eclipse.jdt.ui.JavaPerspective。



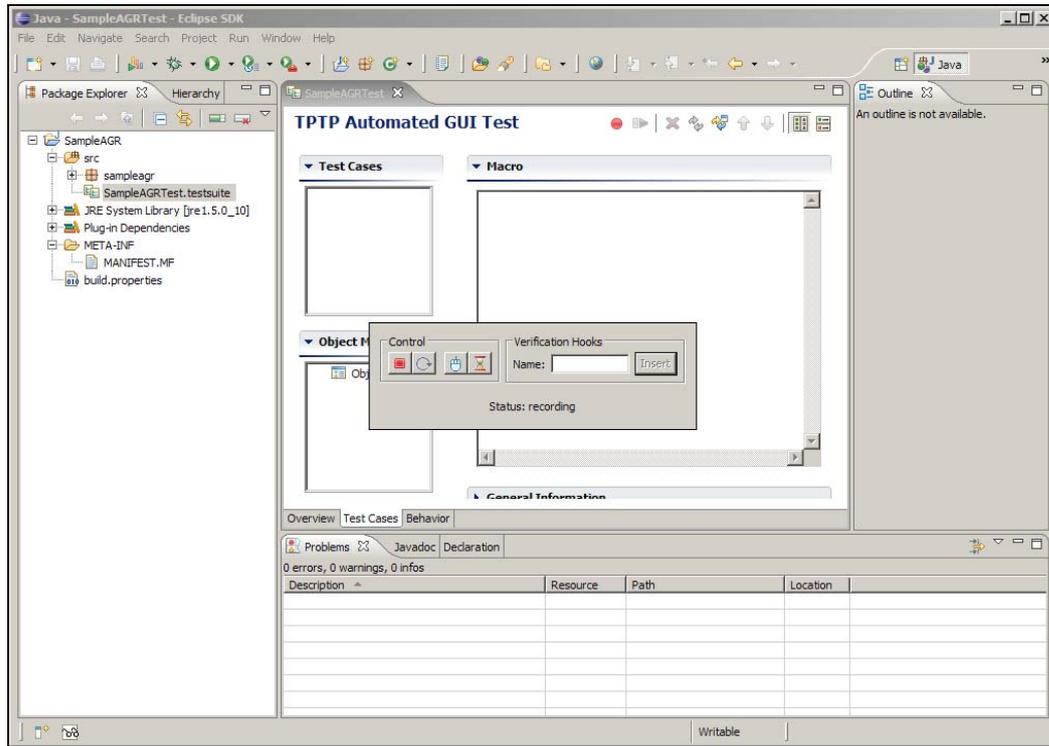
Slide 46

Slide notes: 点击确定。



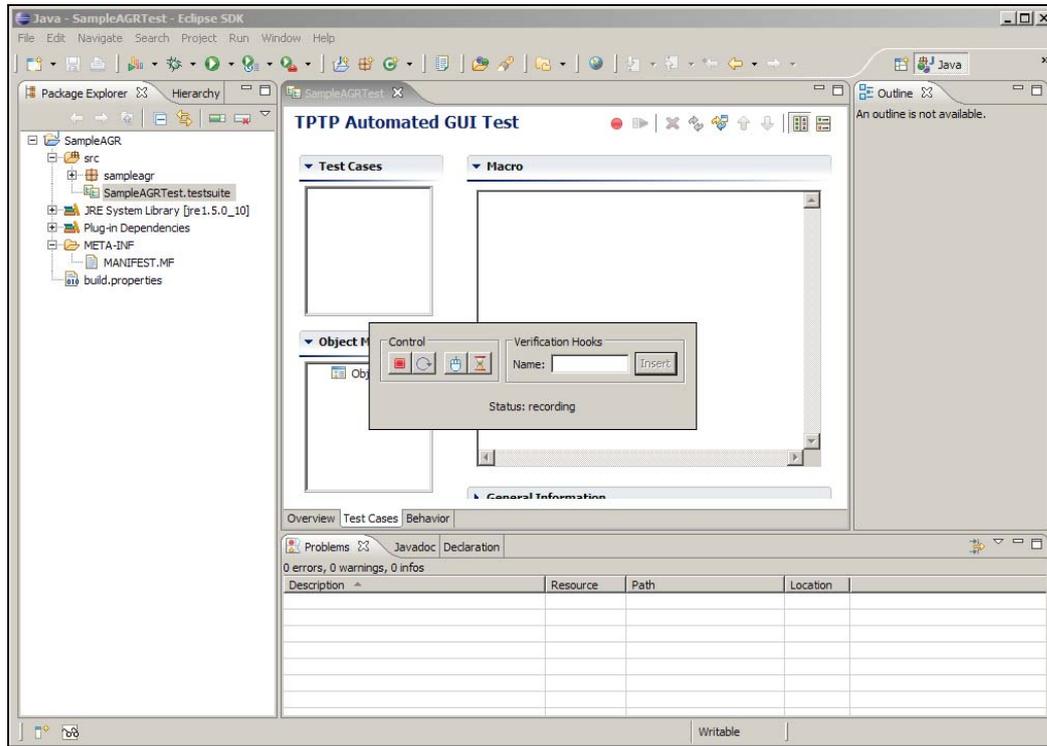
Slide 47

Slide notes:



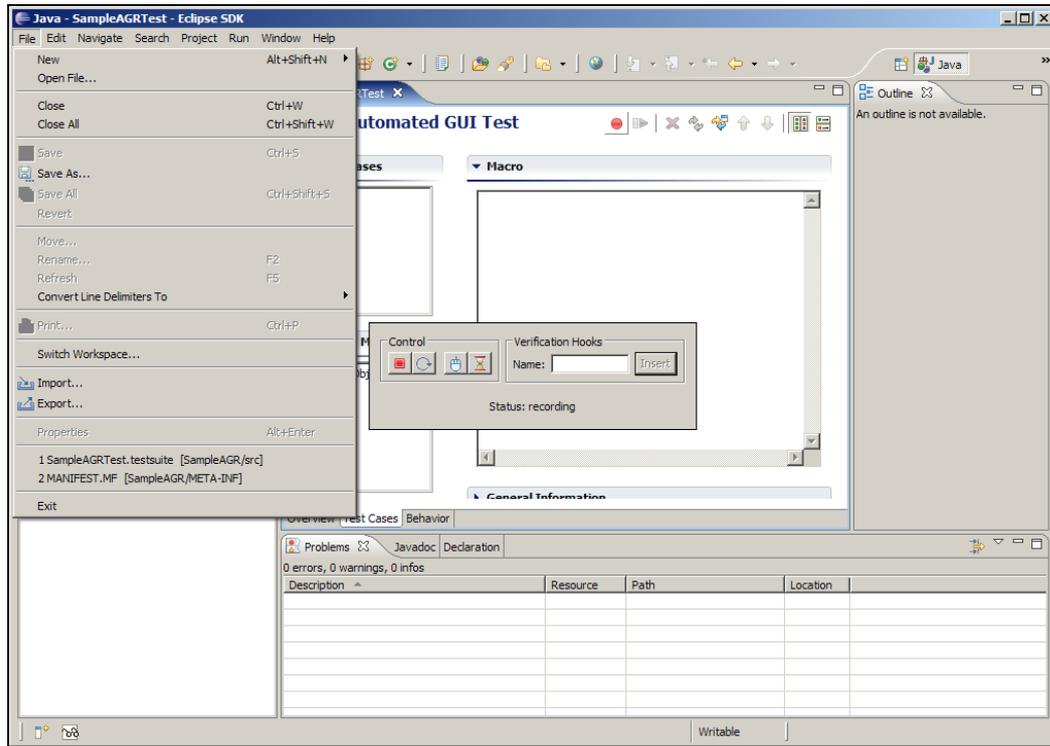
Slide 48

Slide notes: 接着 Java 透视图自动打开，并且提供了一个录制器。通过录制器可以控制测试的录制过程，甚至可以插入验证点。在这个用例中，我们只是建立一个新的 Java 项目，点击文件。



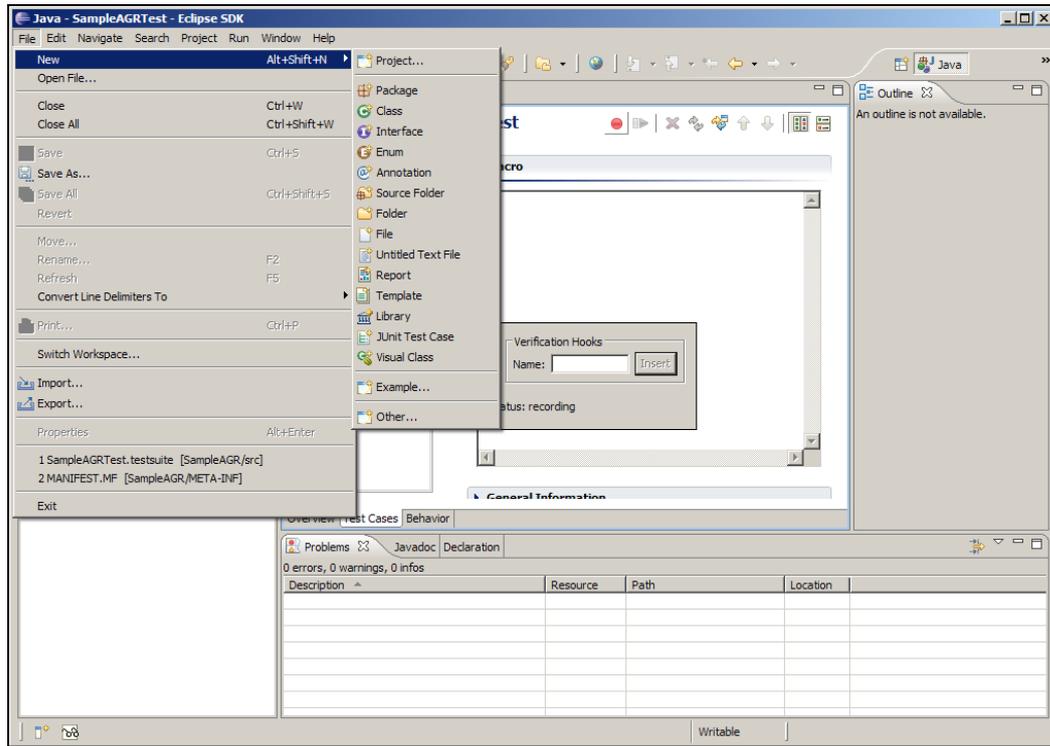
Slide 49

Slide notes:



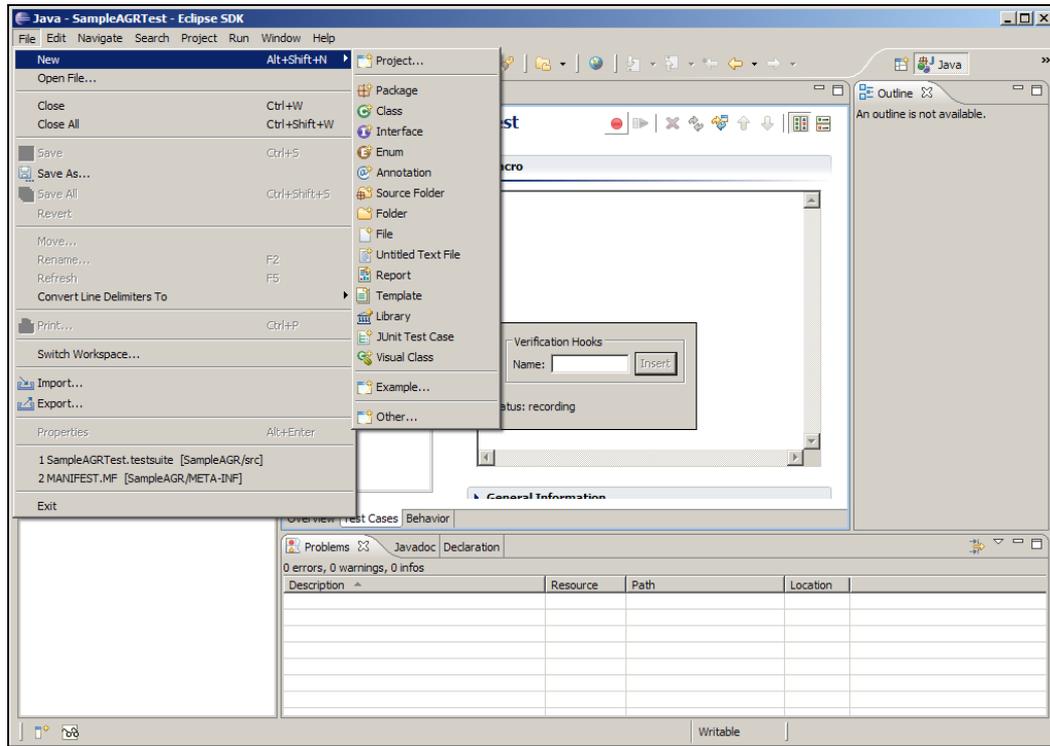
Slide 50

Slide notes: 选择新建 > 项目...



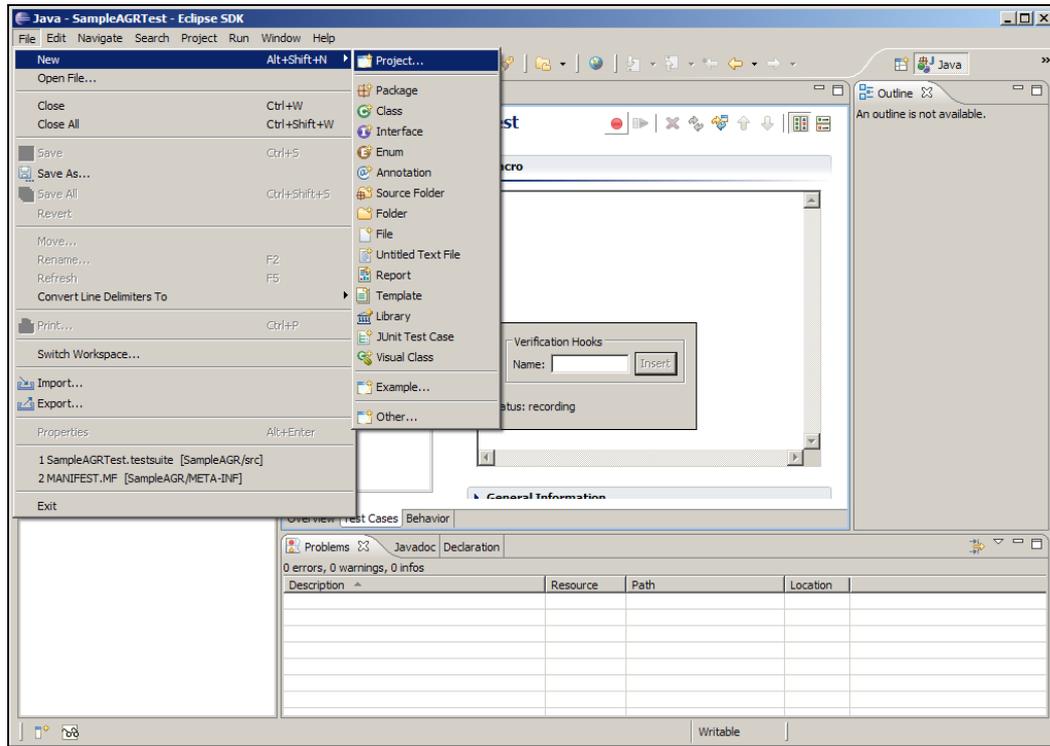
Slide 51

Slide notes:



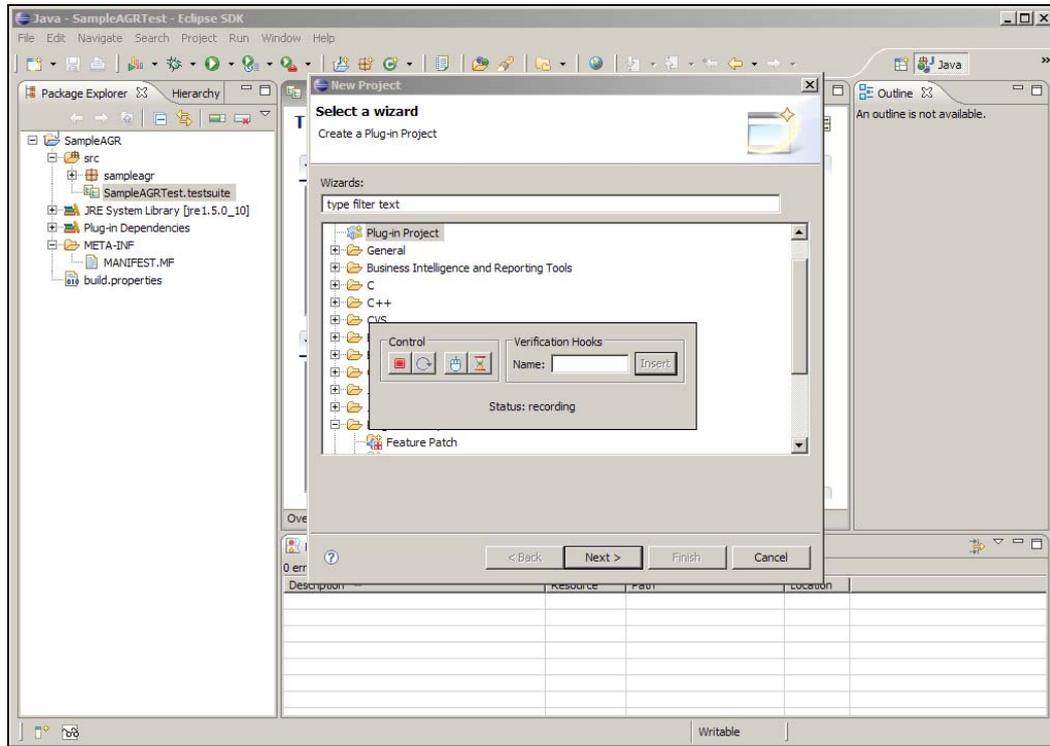
Slide 52

Slide notes:



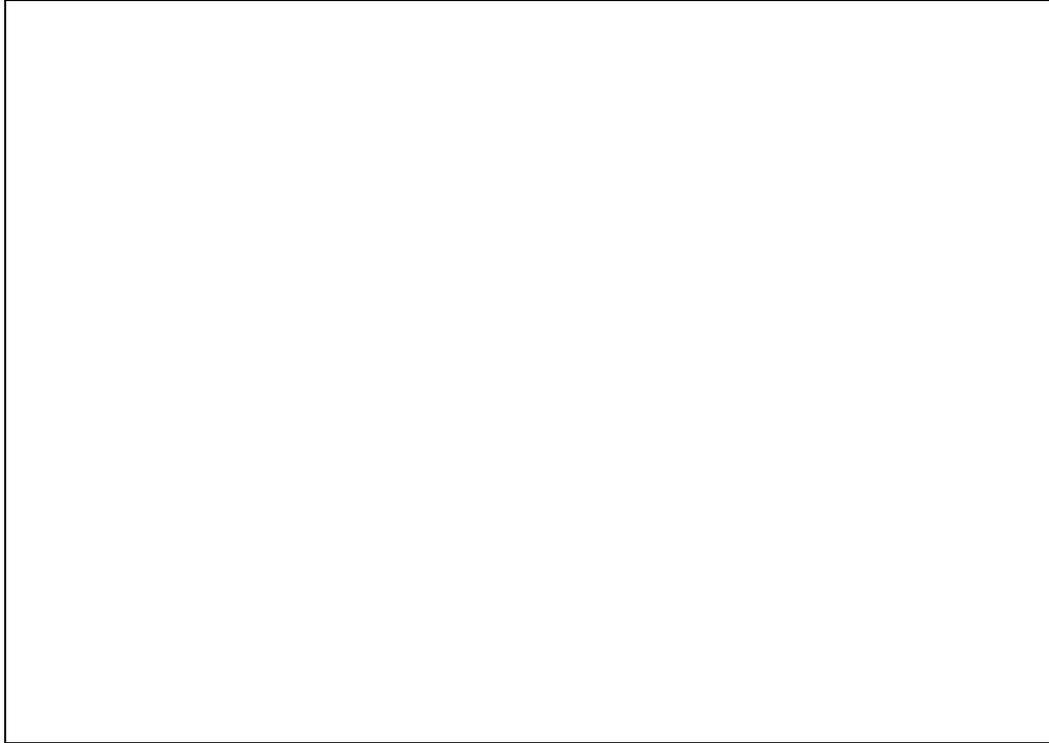
Slide 53

Slide notes:



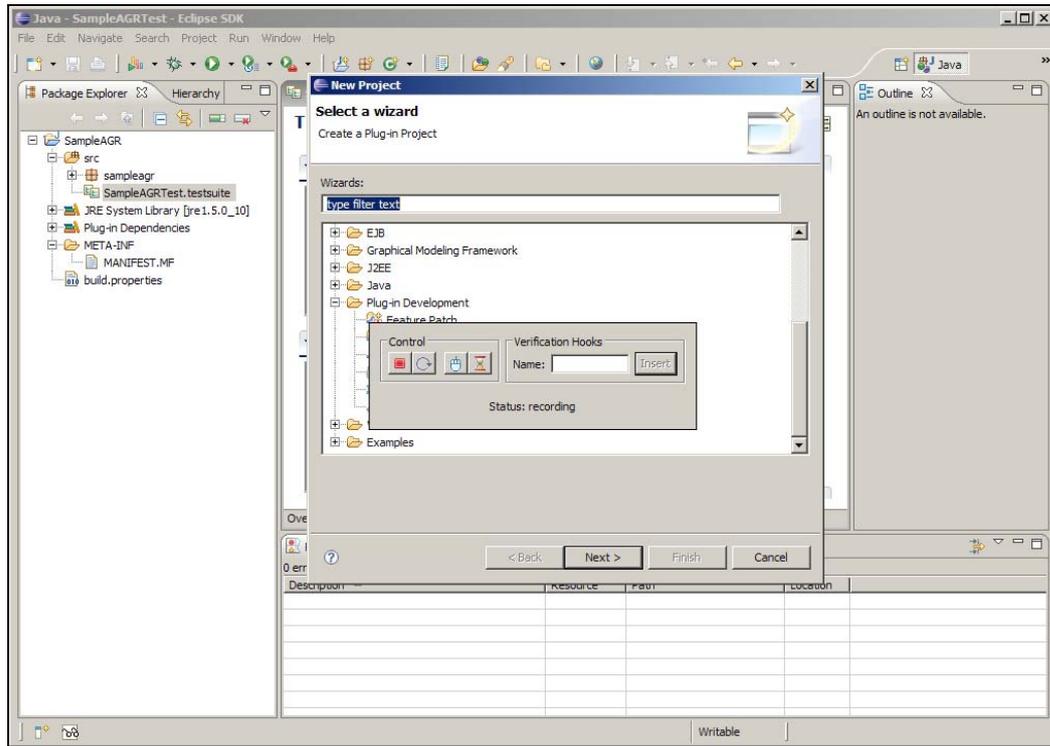
Slide 54

Slide notes: 展开 Java 文件夹，找到 Java 项目。



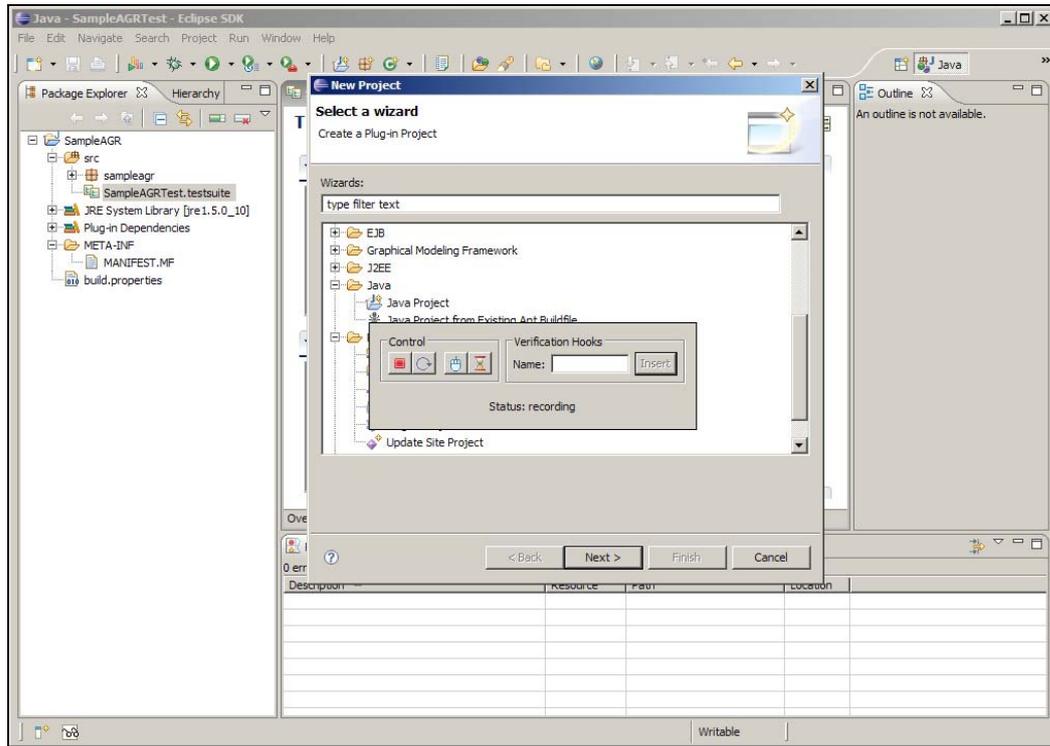
Slide 55

Slide notes:



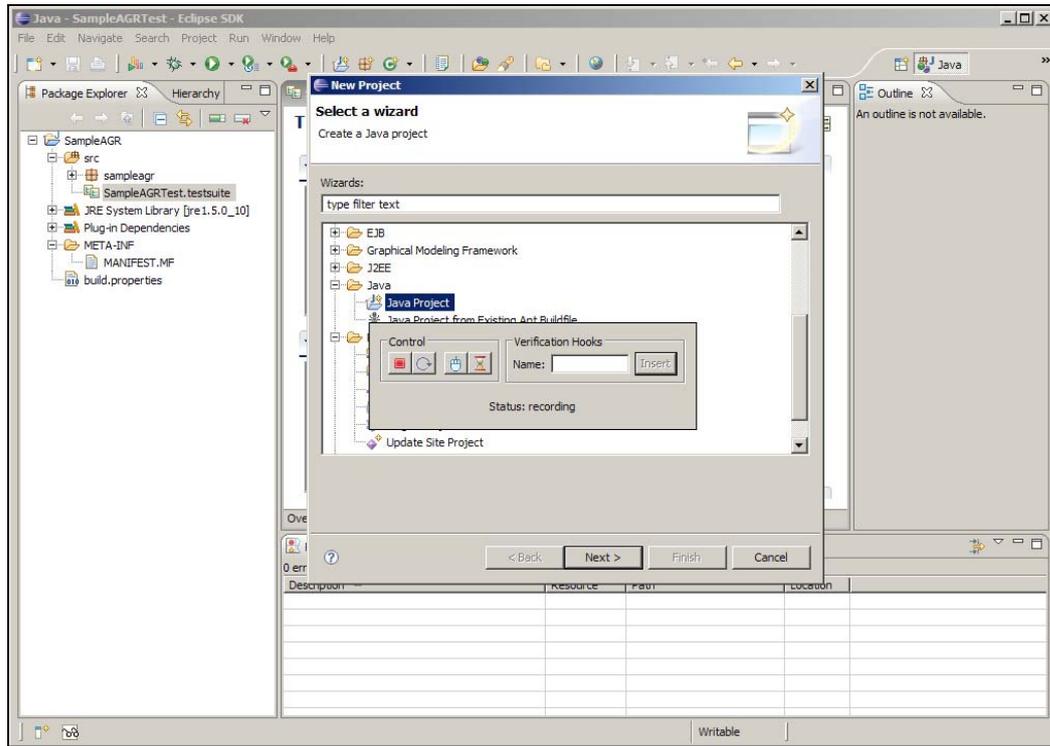
Slide 56

Slide notes:



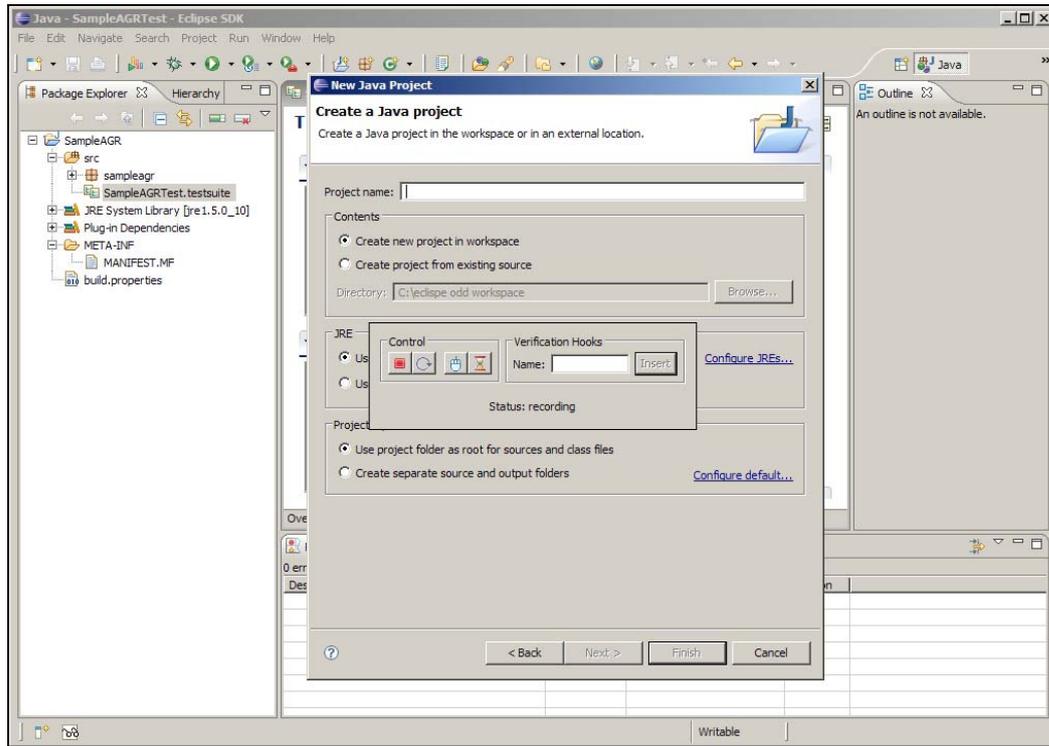
Slide 57

Slide notes:



Slide 58

Slide notes:



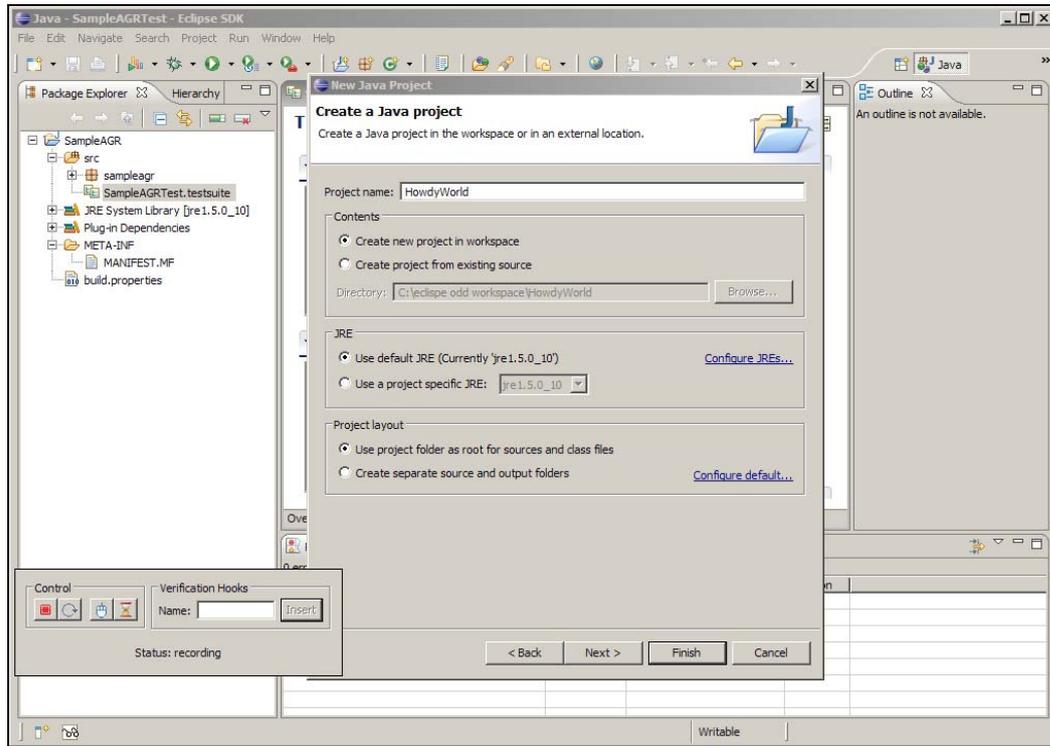
Slide 59

Slide notes: 把录制器的窗口移到旁边。



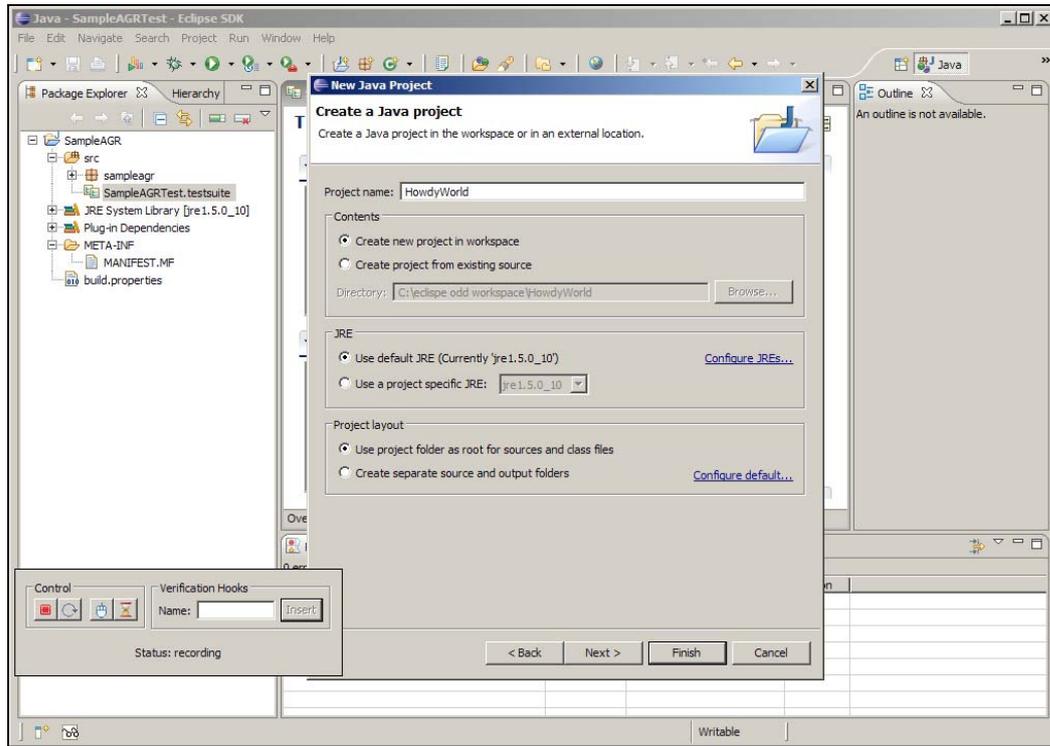
Slide 60

Slide notes:



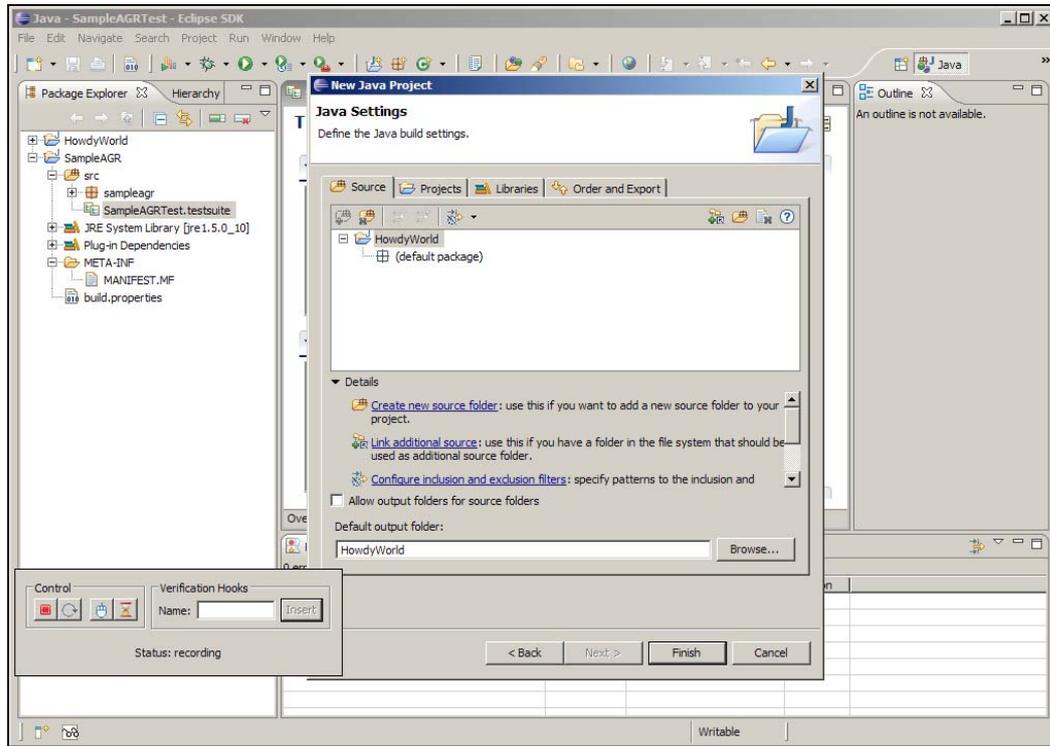
Slide 61

Slide notes:



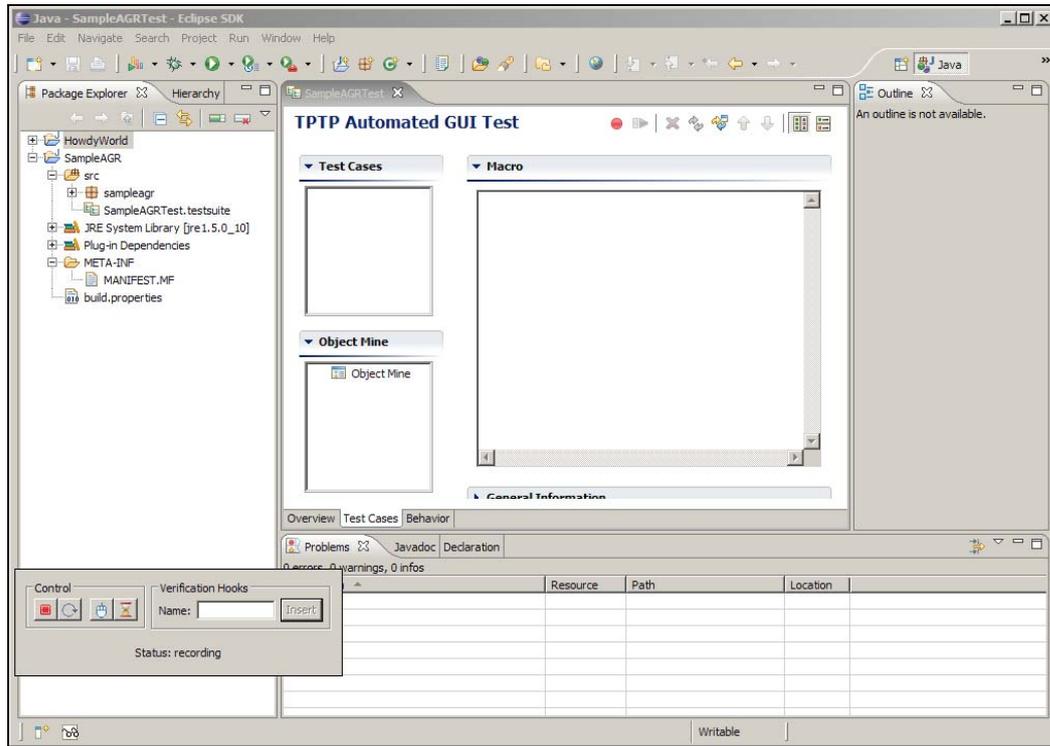
Slide 62

Slide notes: 指定项目名称为 HowdyWorld，其他选项取默认值。



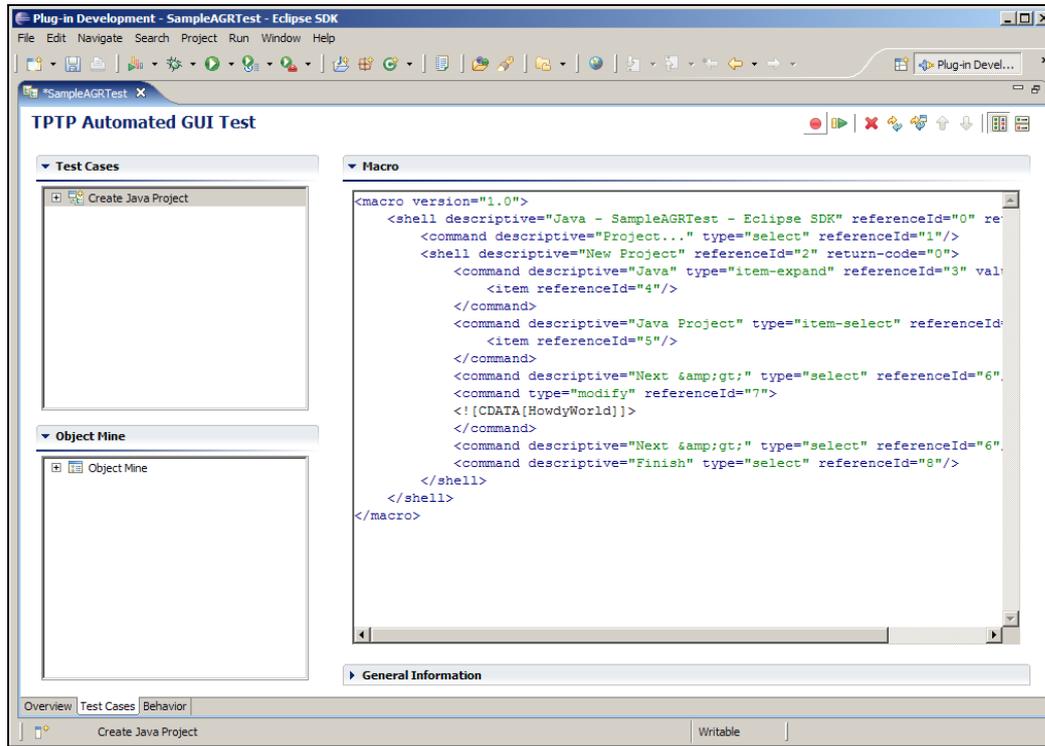
Slide 63

Slide notes: 点击完成。



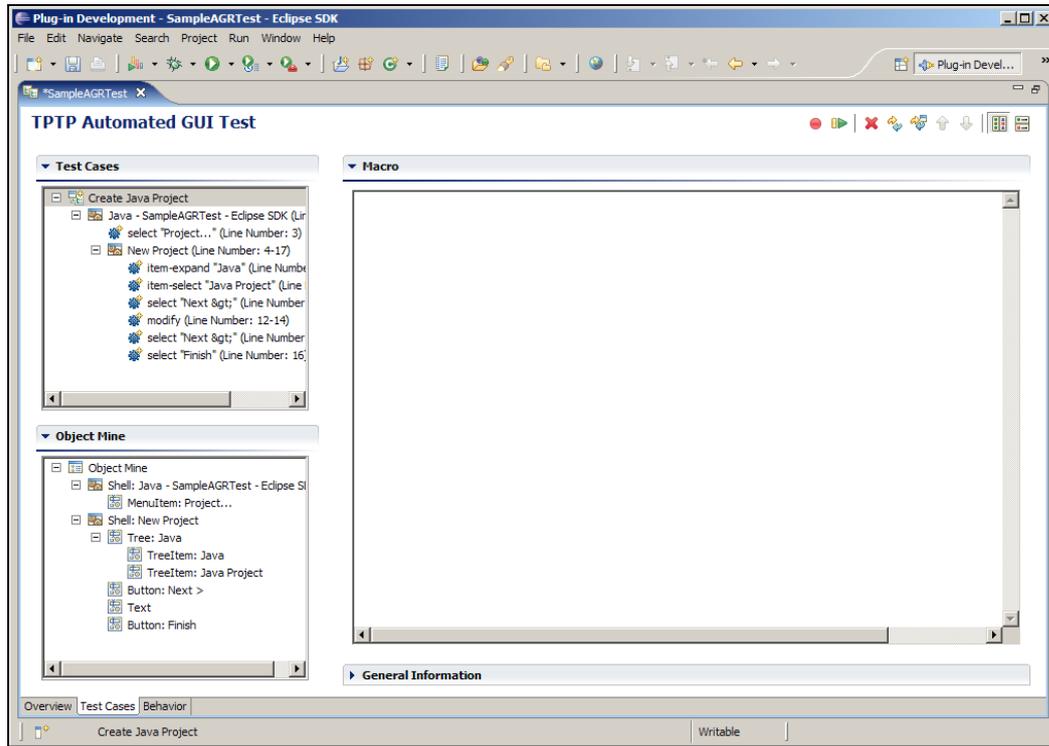
Slide 64

Slide notes: 点击录制器中红色的结束按钮，停止录制。



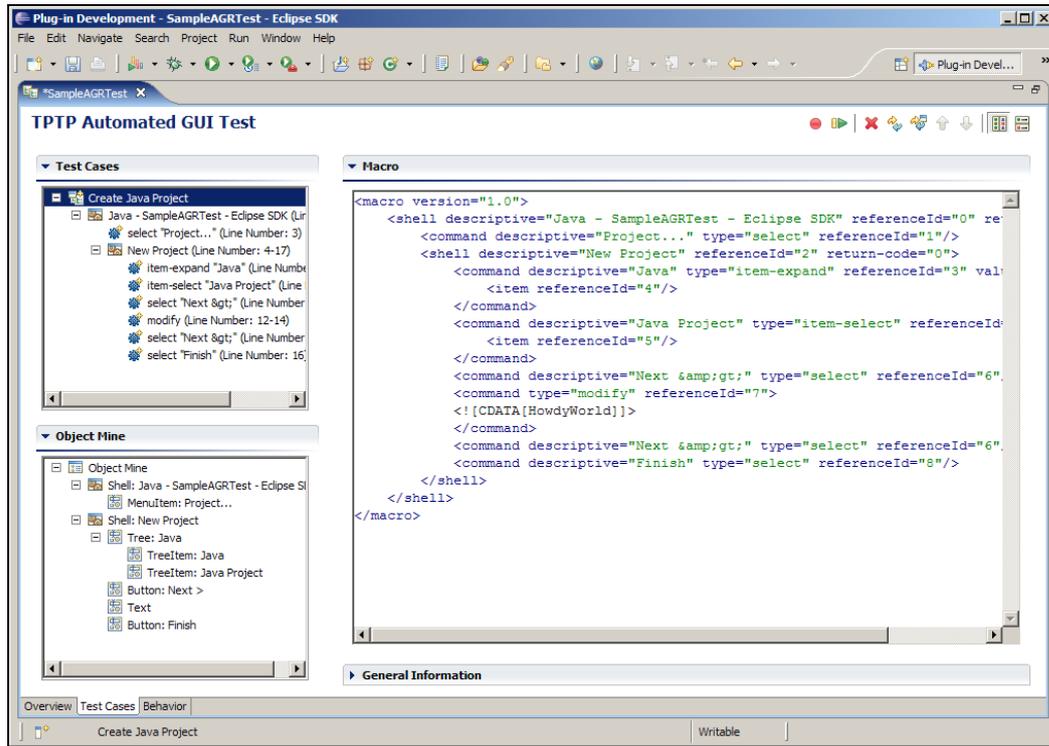
Slide 65

Slide notes: 录制停止后，在编辑器中将显示出自动生成的测试脚本。展开测试用例中的创建 Java 项目，可以看到与 Eclipse 的每一次交互。您还可以对脚本作出进一步的修改。



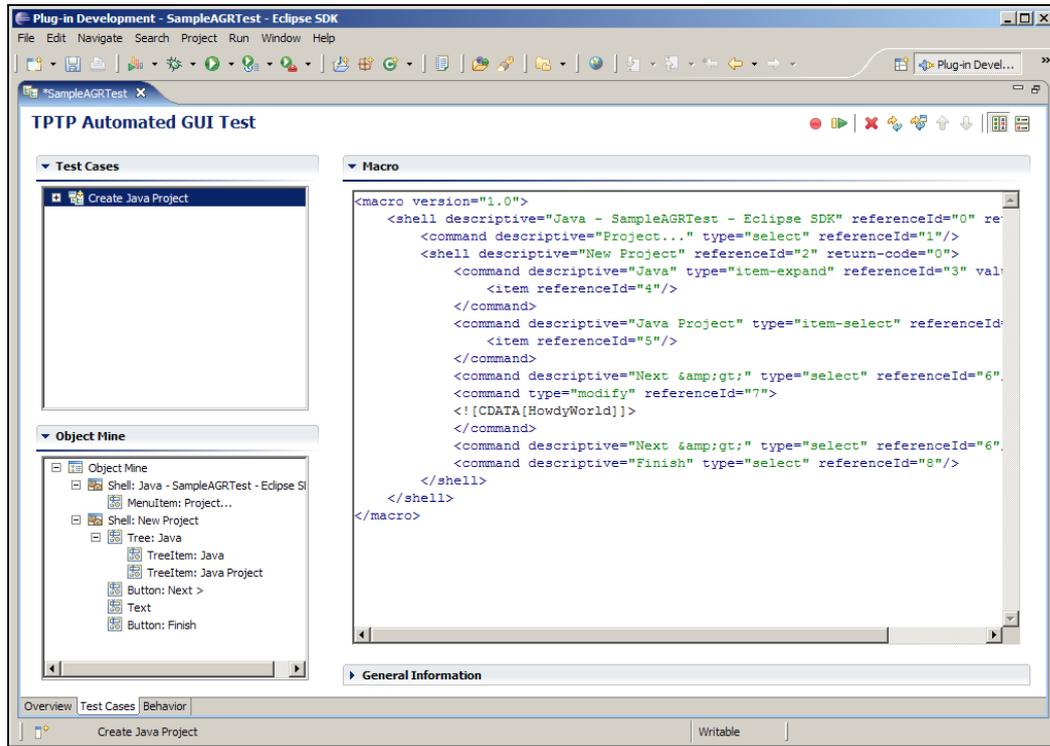
Slide 66

Slide notes: 注意 Object Mine 视图，这里列出了用例中进行交互的每个 SWT 对象。在这里也可以对脚本进行更改。



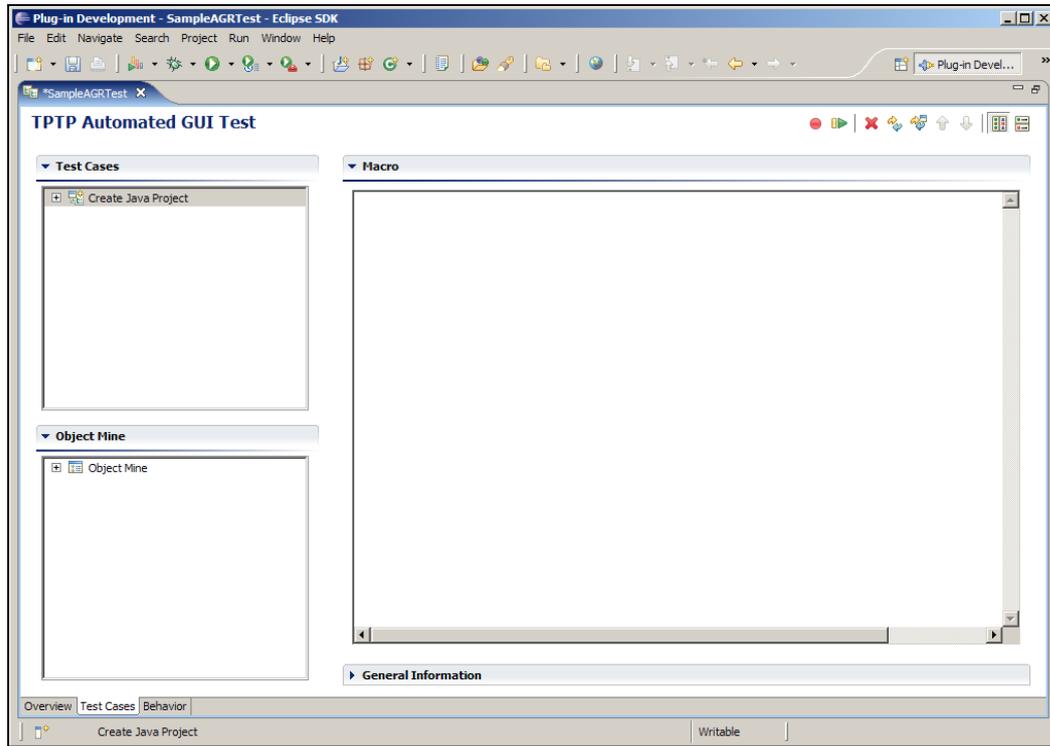
Slide 67

Slide notes:



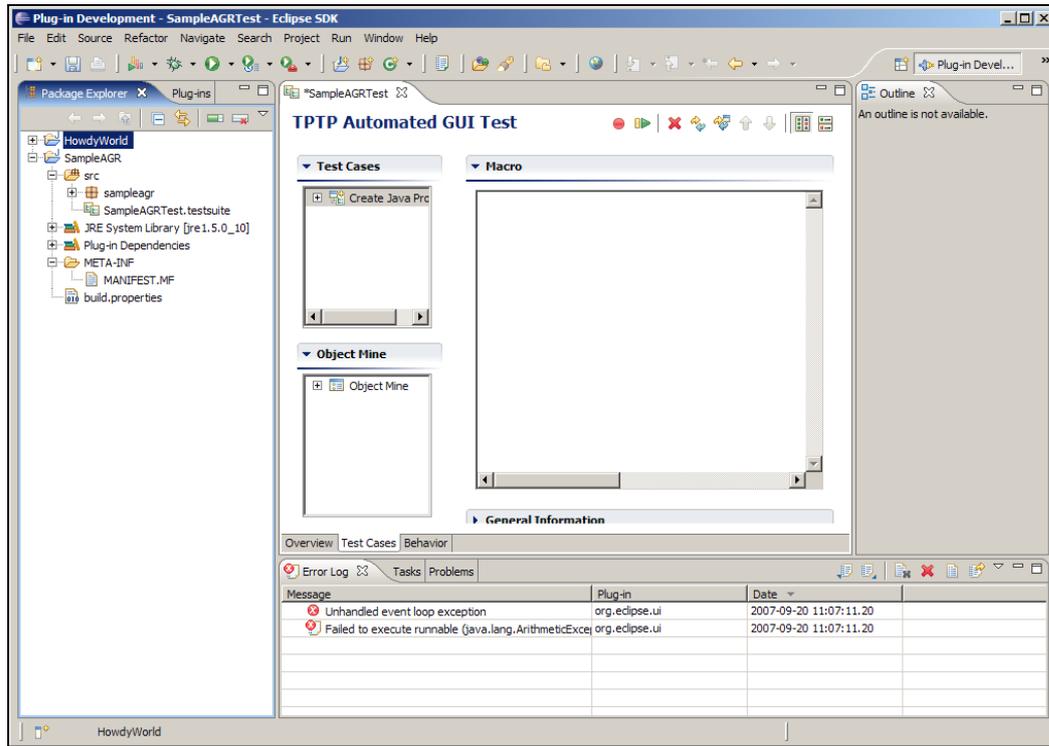
Slide 68

Slide notes:



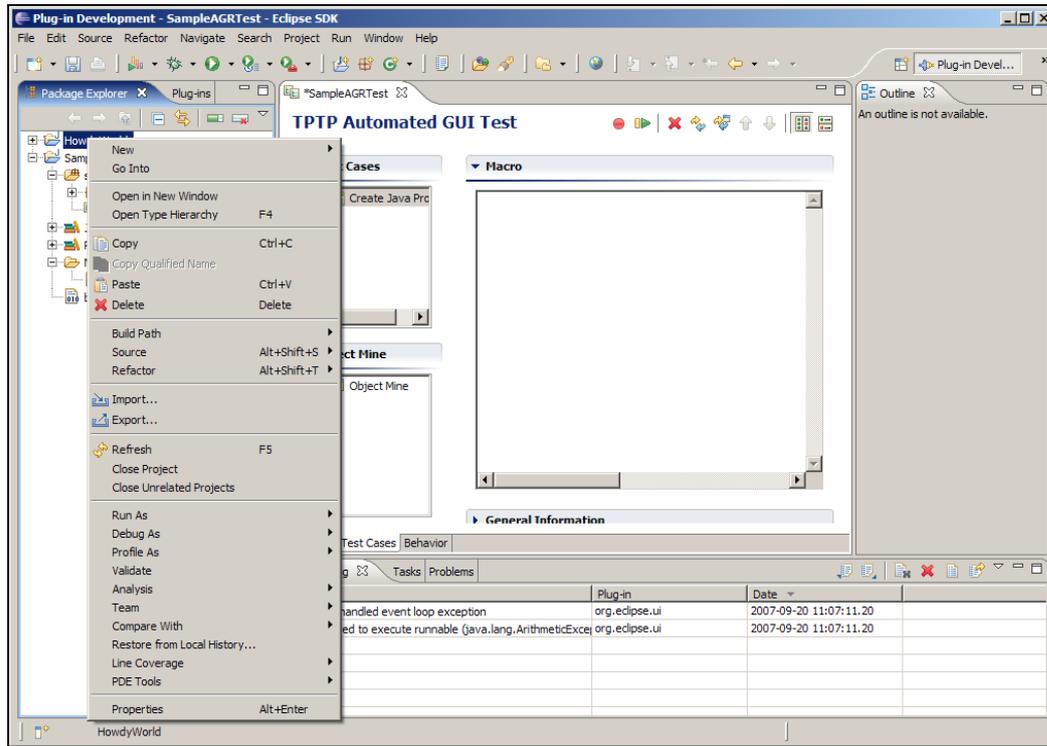
Slide 69

Slide notes:



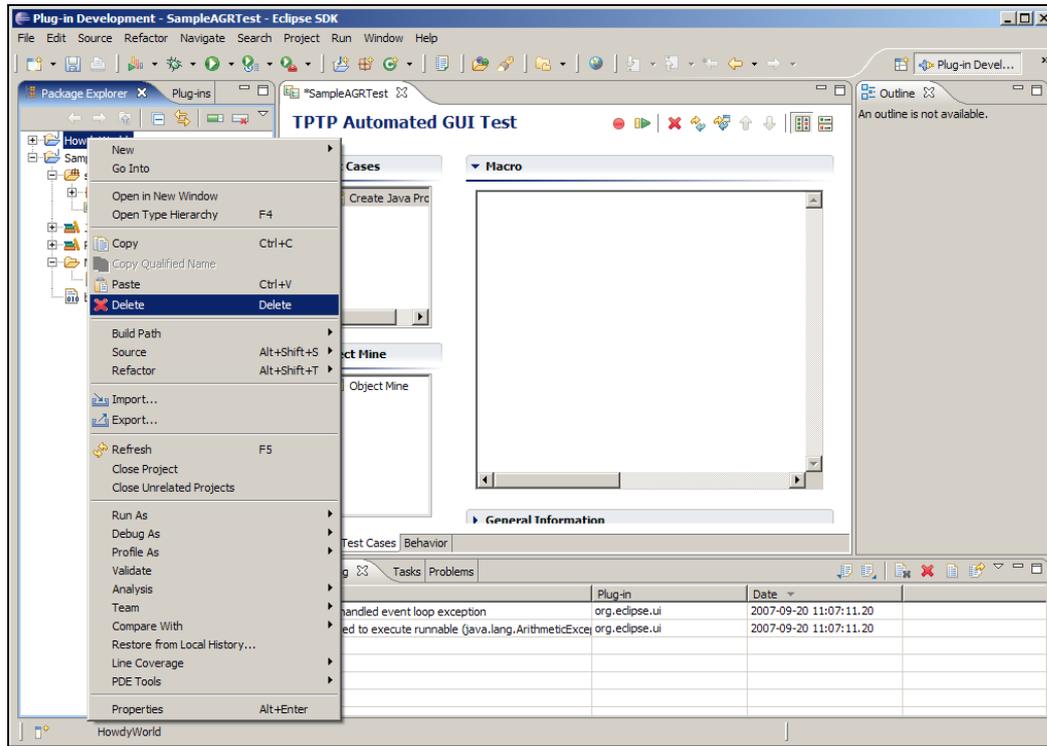
Slide 70

Slide notes: 在运行测试用例之前，必须把刚才的 HowdyWorld 项目删除。右键单击项目并选择删除。



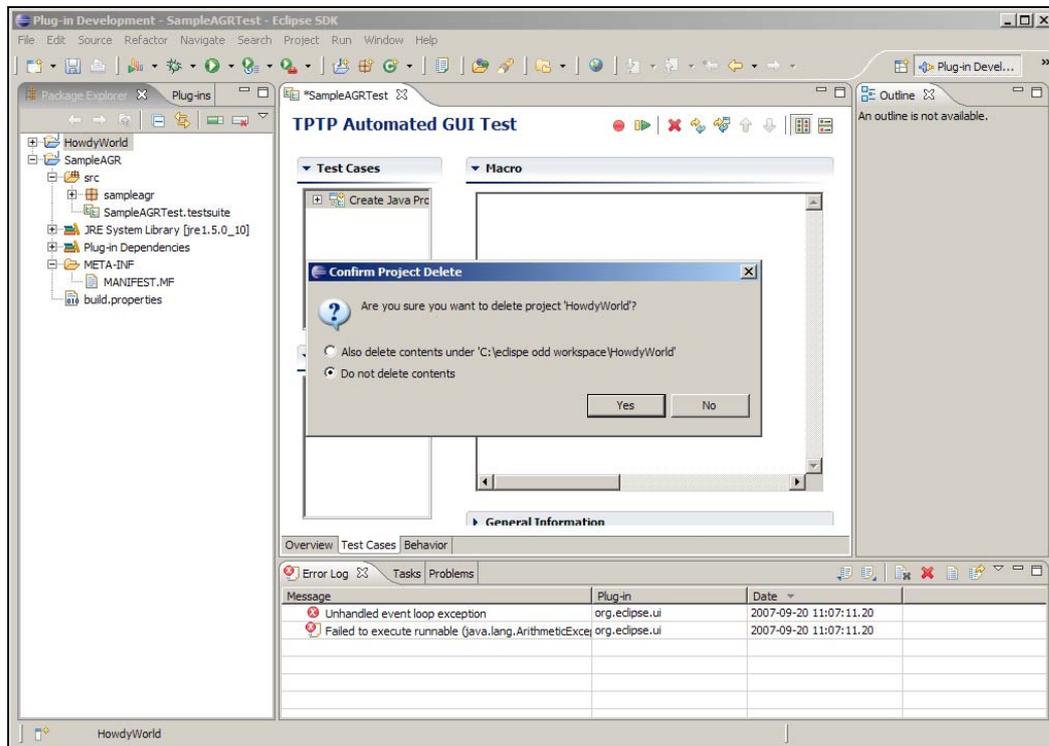
Slide 71

Slide notes:



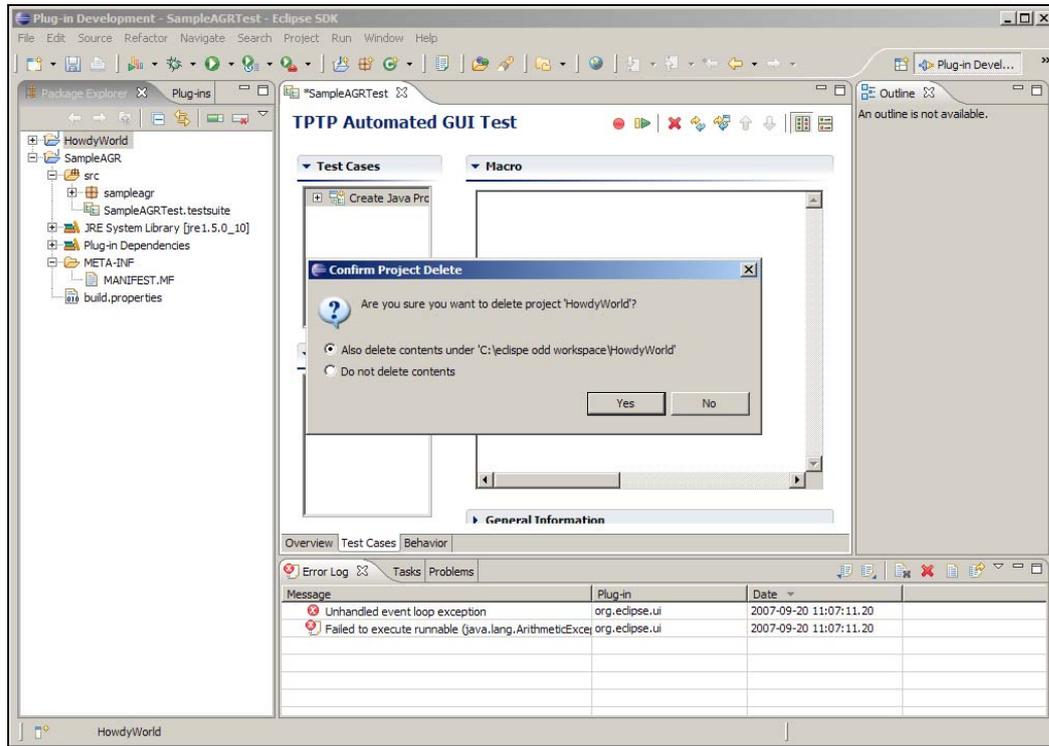
Slide 72

Slide notes:



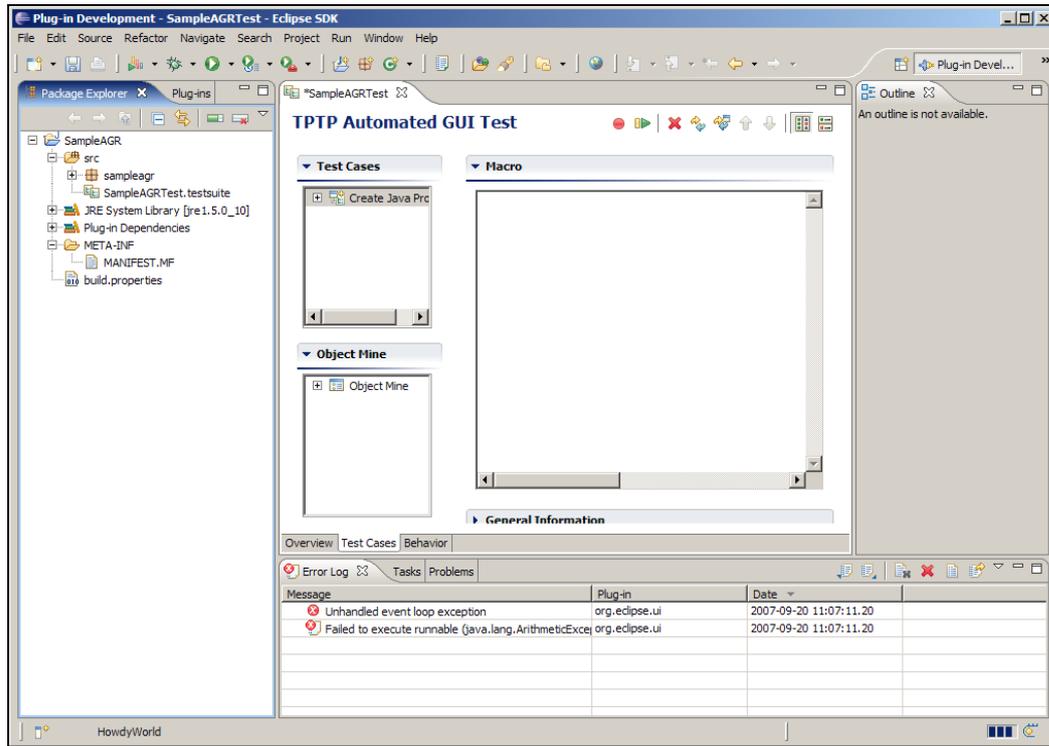
Slide 73

Slide notes: 选中 "同时删除工作空间中的内容", 并点击是。



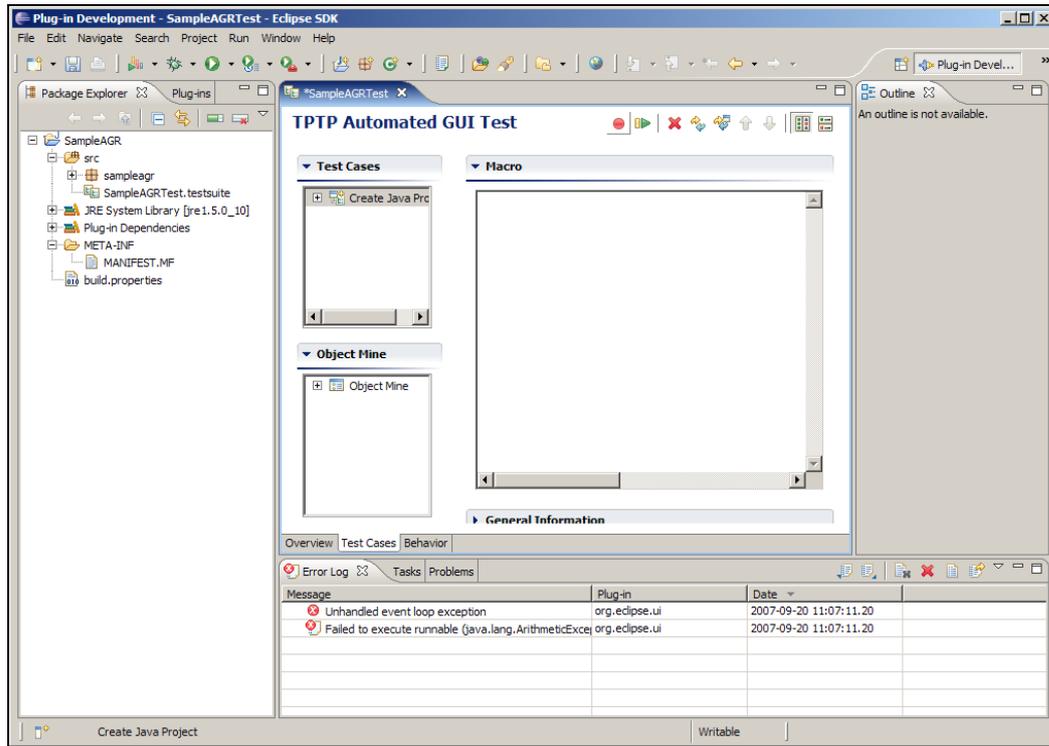
Slide 74

Slide notes:



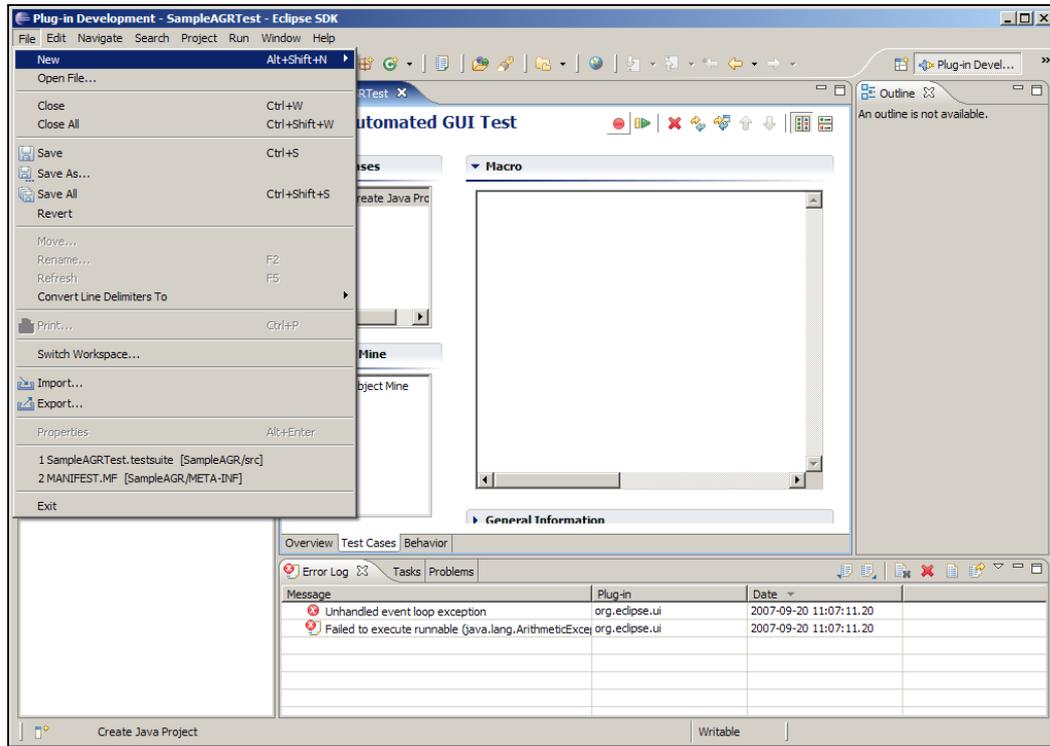
Slide 75

Slide notes:



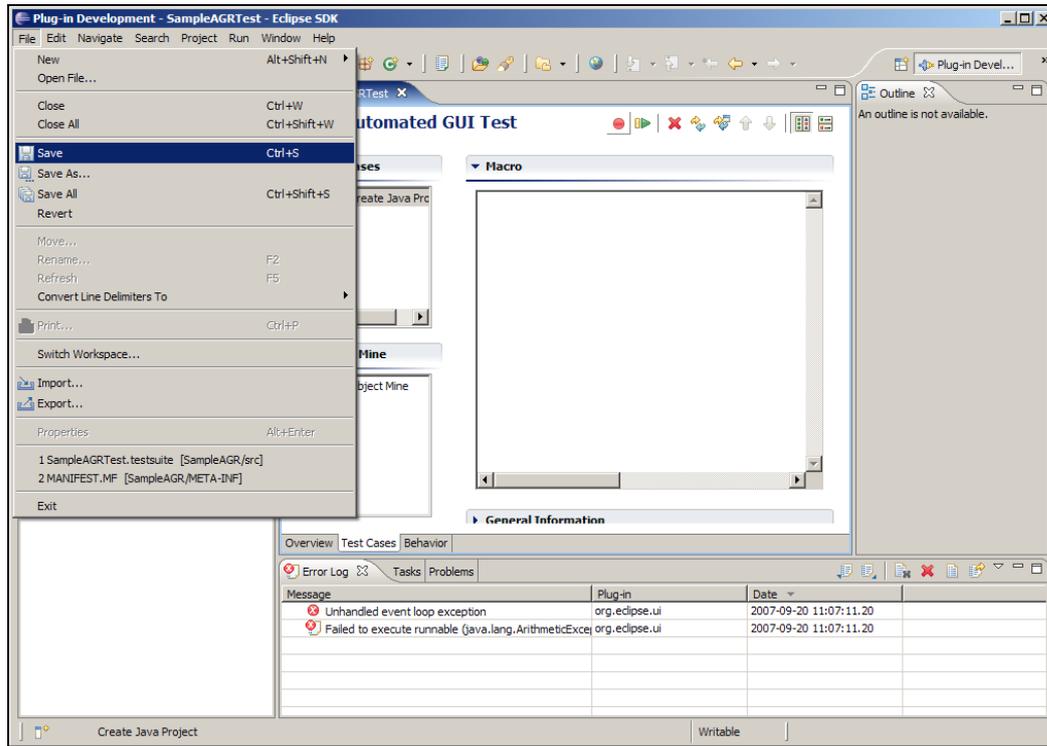
Slide 76

Slide notes: 点击文件 > 保存。



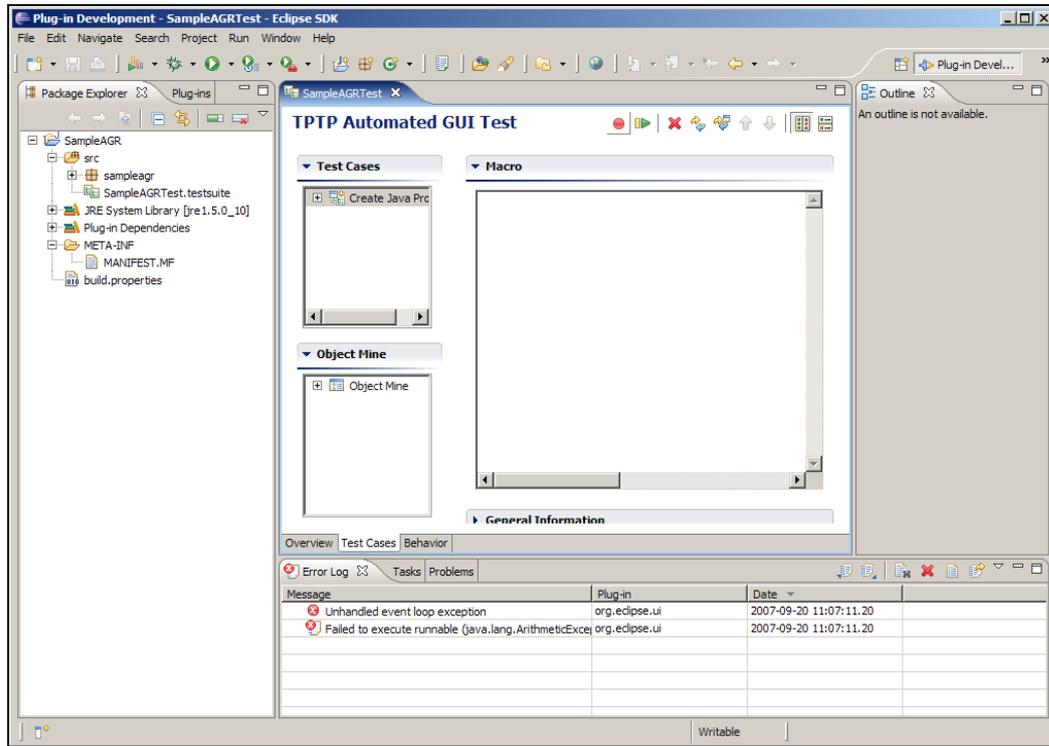
Slide 77

Slide notes:



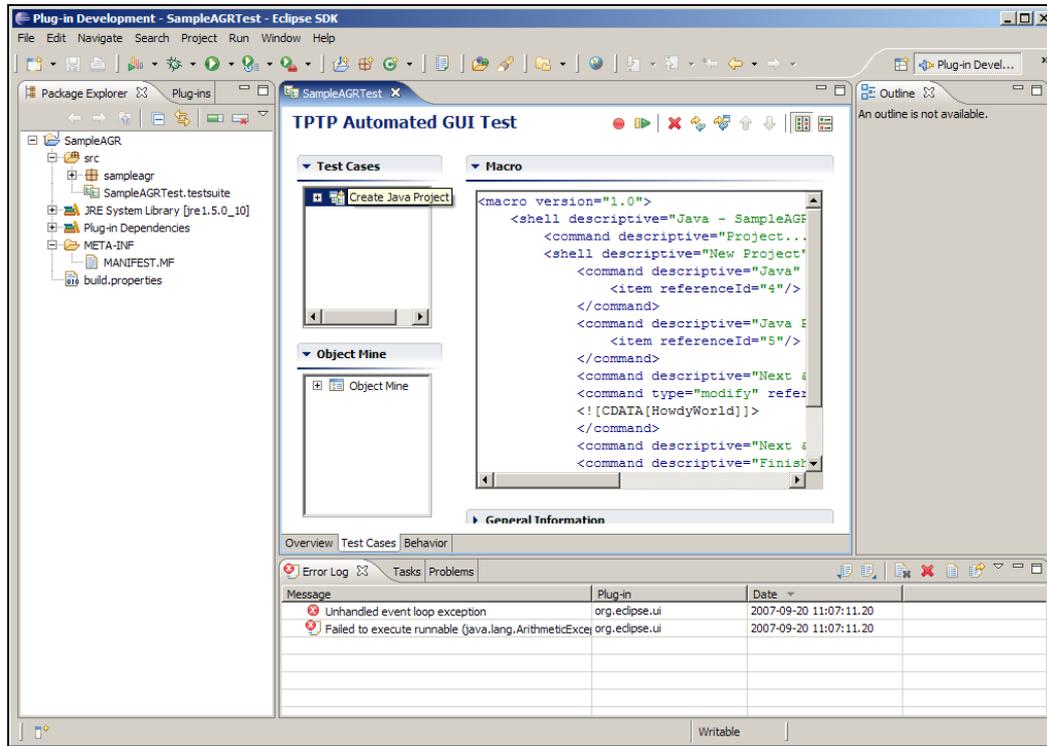
Slide 78

Slide notes:



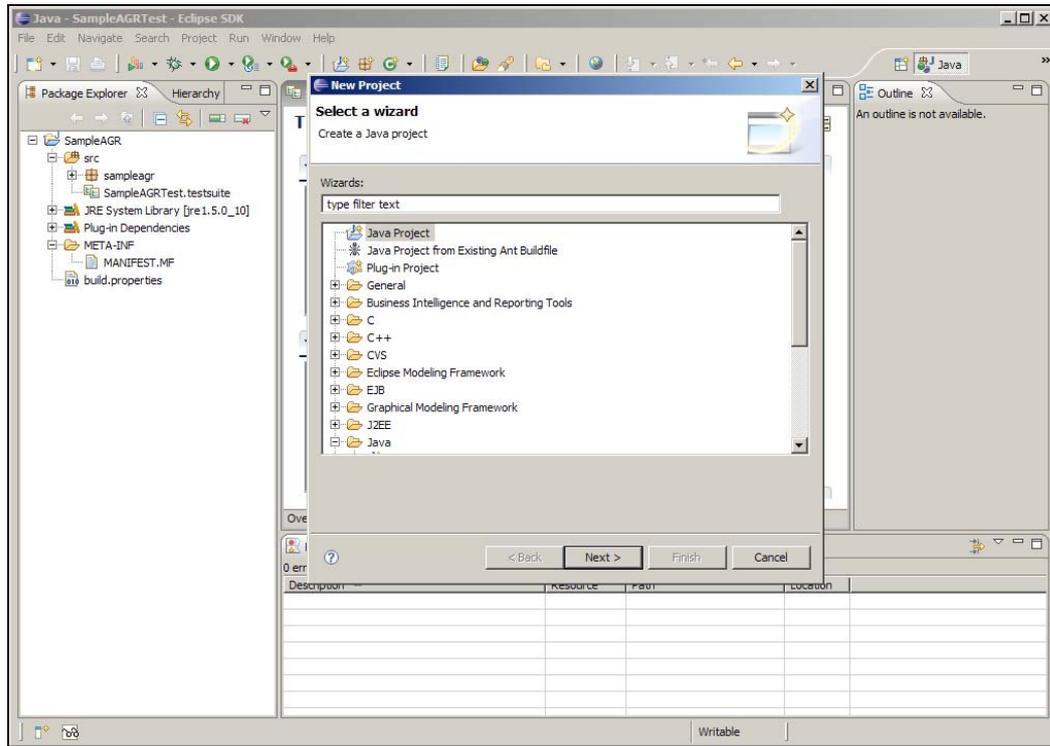
Slide 79

Slide notes: 确保创建 Java 项目被选中，并且点击绿色的运行按钮，在当前工作台运行测试用例。



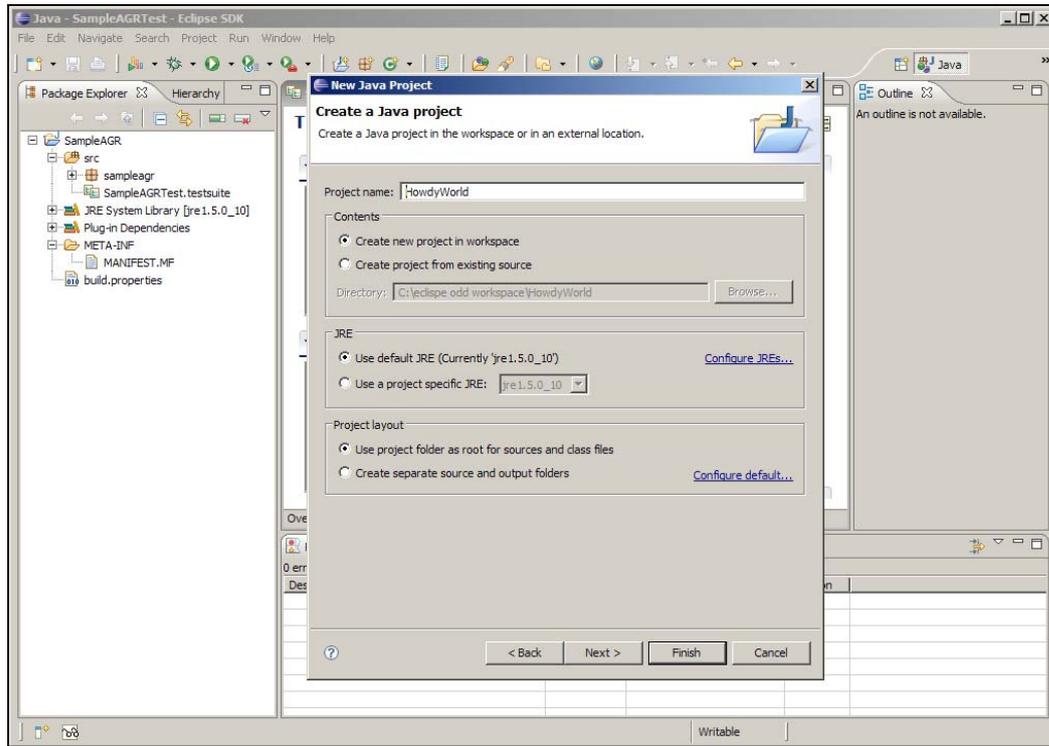
Slide 80

Slide notes:



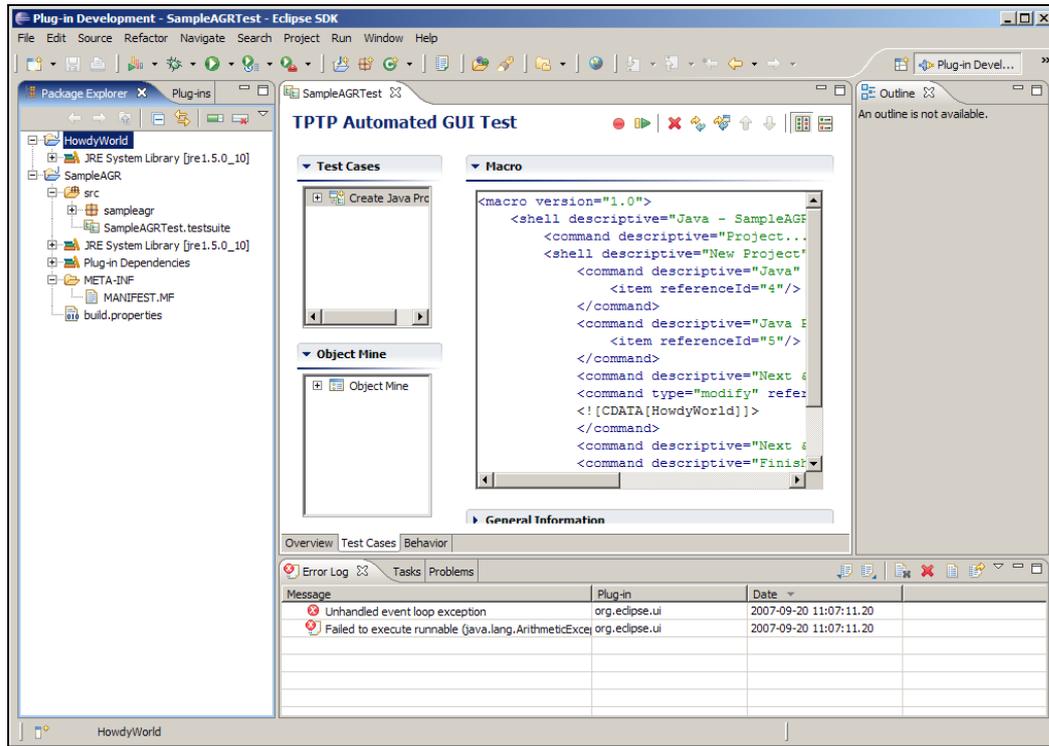
Slide 81

Slide notes: 现在自动化录制器会按照刚刚录制的脚本创建一个 Java 项目。



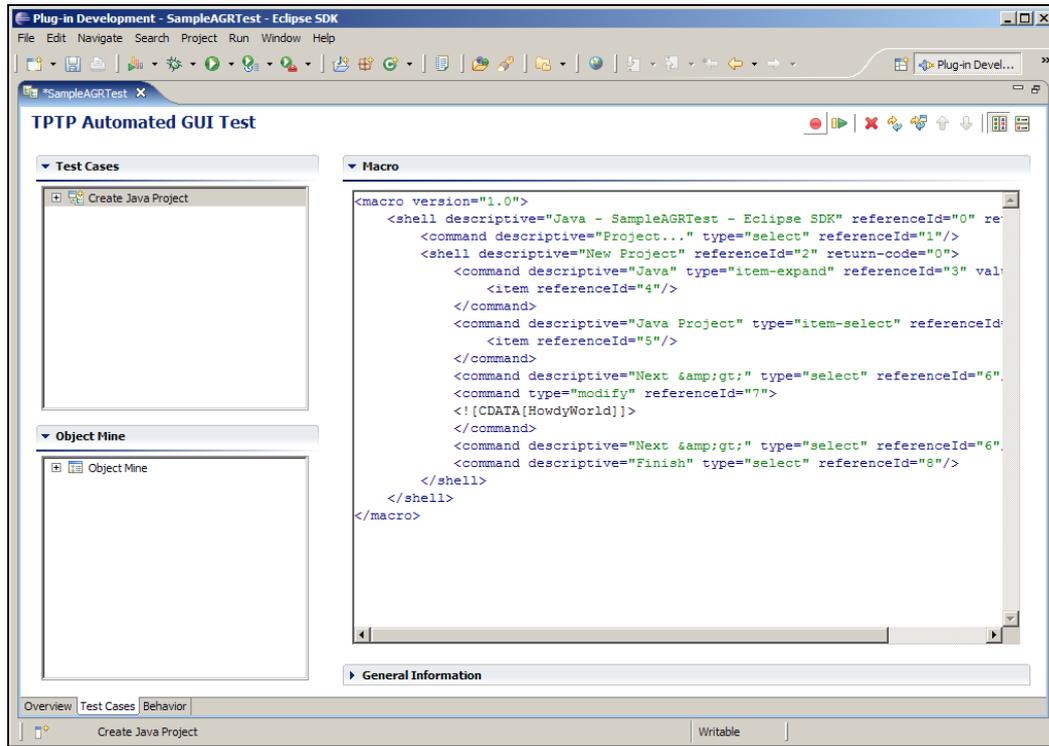
Slide 82

Slide notes:



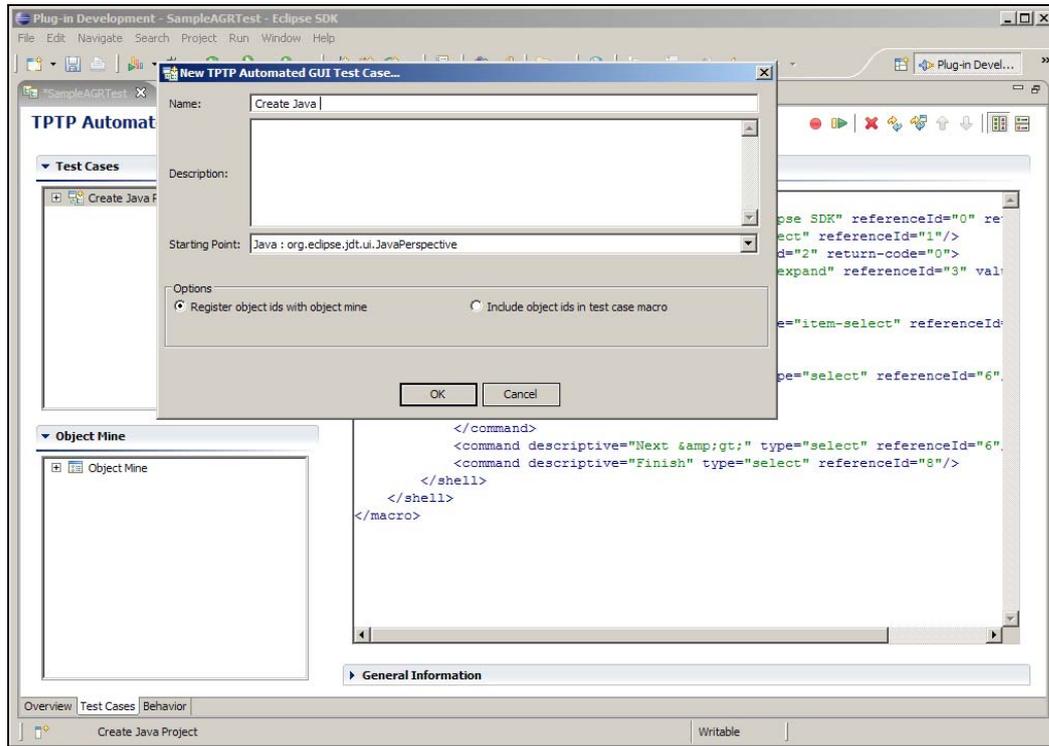
Slide 83

Slide notes: 现在可以在包浏览器中再次看到 HowdyWorld 项目，



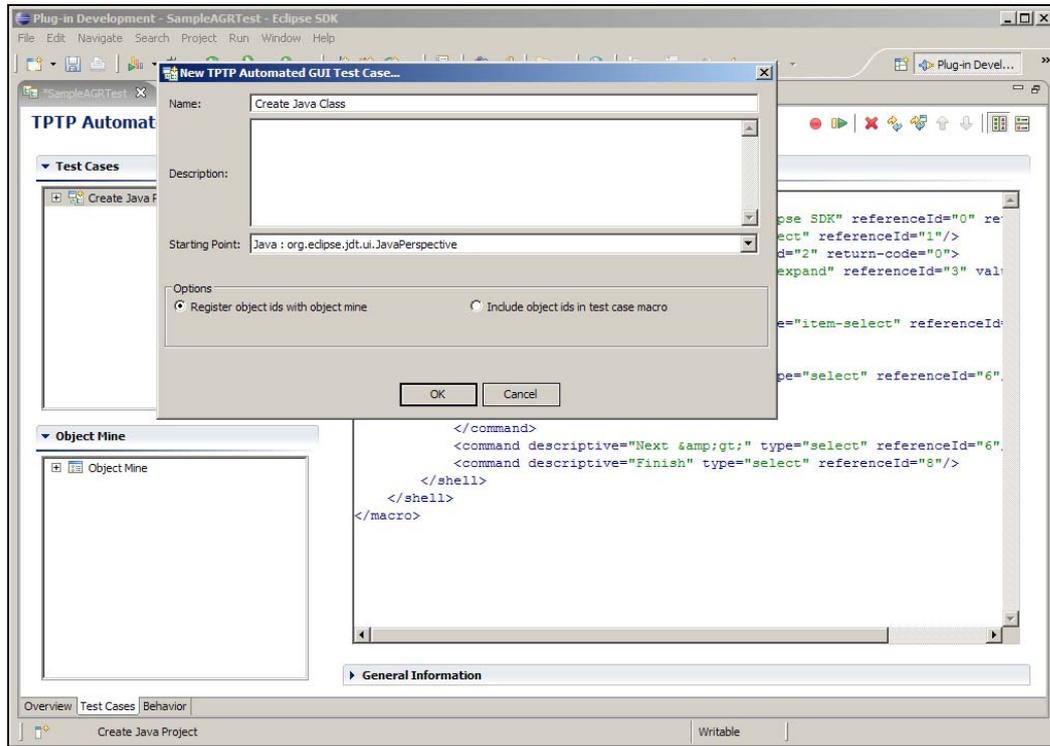
Slide 84

Slide notes: 回到自动化测试编辑器中，点击录制按钮，录制另一个测试用例。



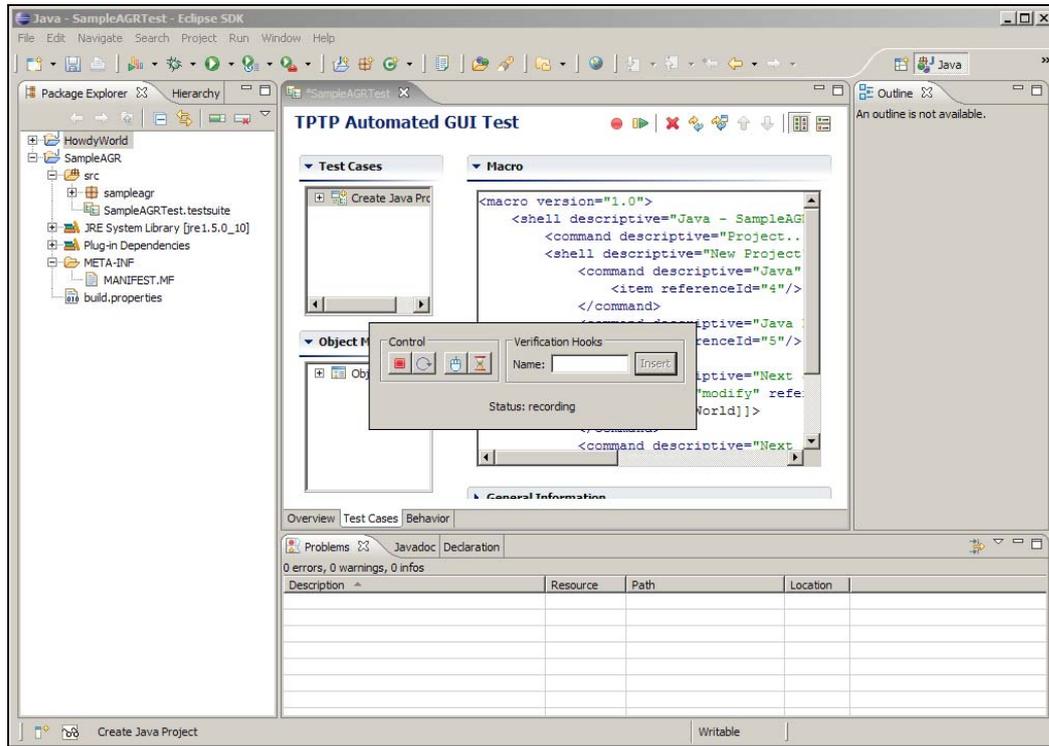
Slide 85

Slide notes: 取名为 创建 Java 类，起始点保持不变。



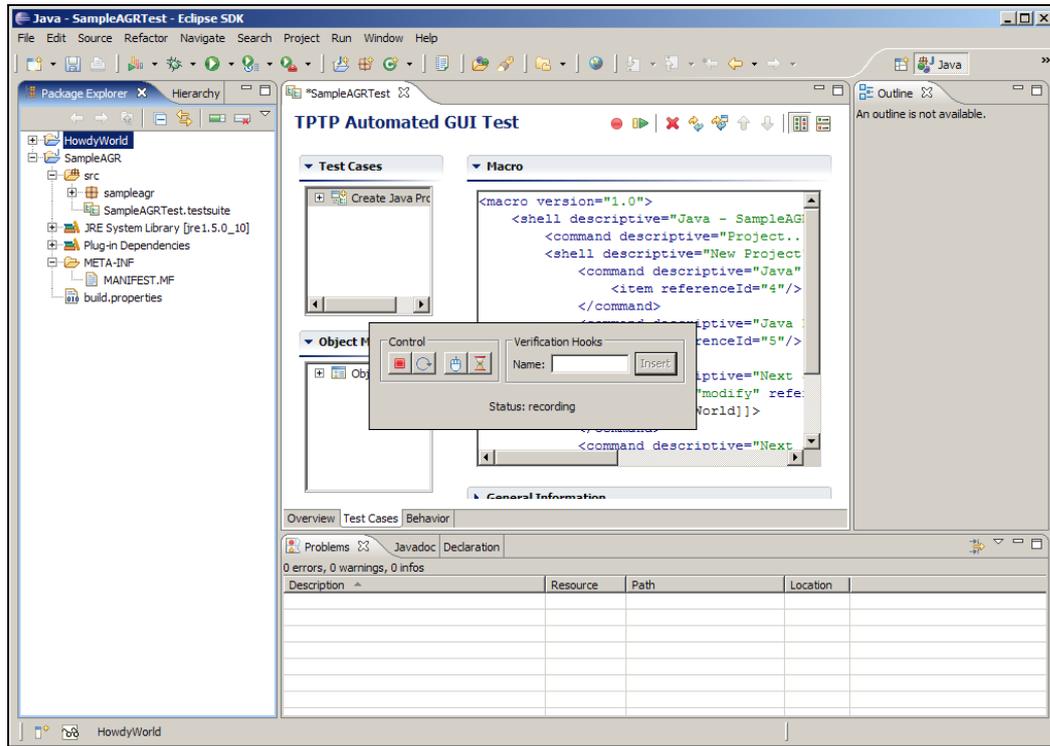
Slide 86

Slide notes: 点击确定。



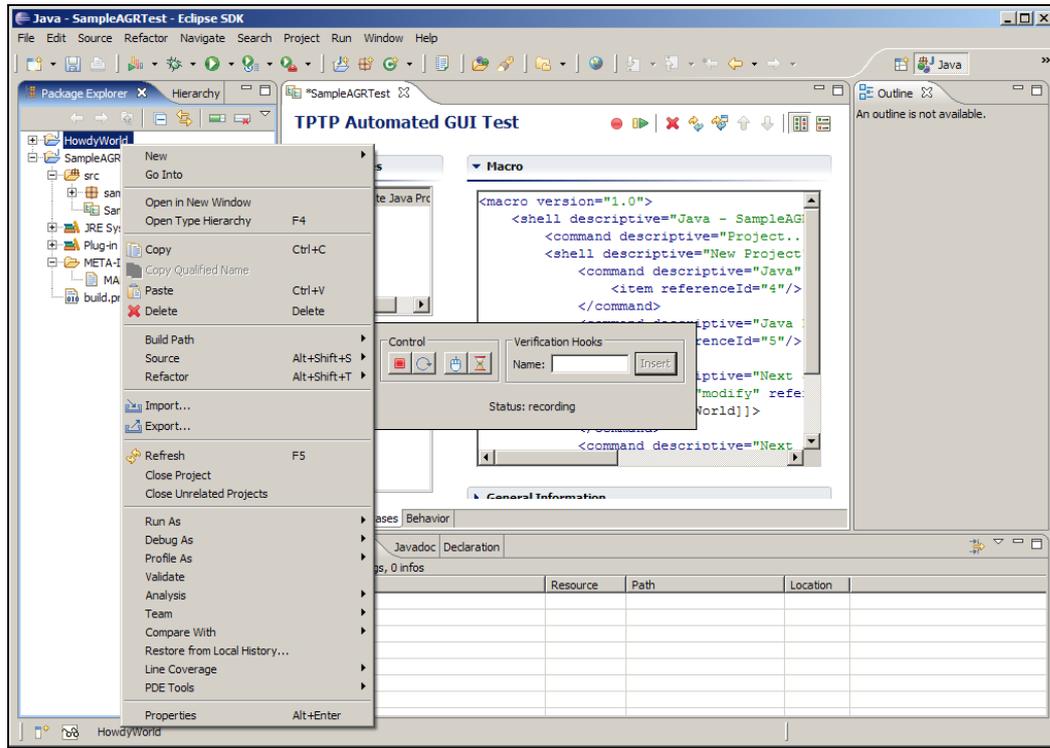
Slide 87

Slide notes: 在这个测试用例中我们需要向 HowdyWorld 项目中添加一个类。右键单击项目，选择新建 > 类。



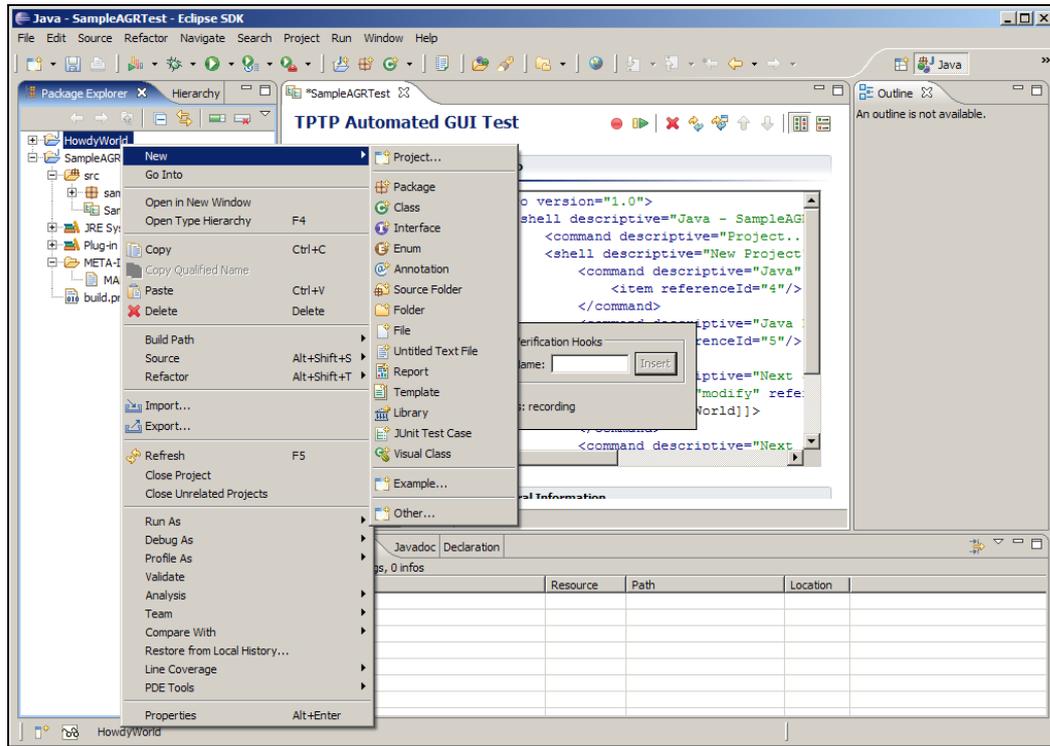
Slide 88

Slide notes:



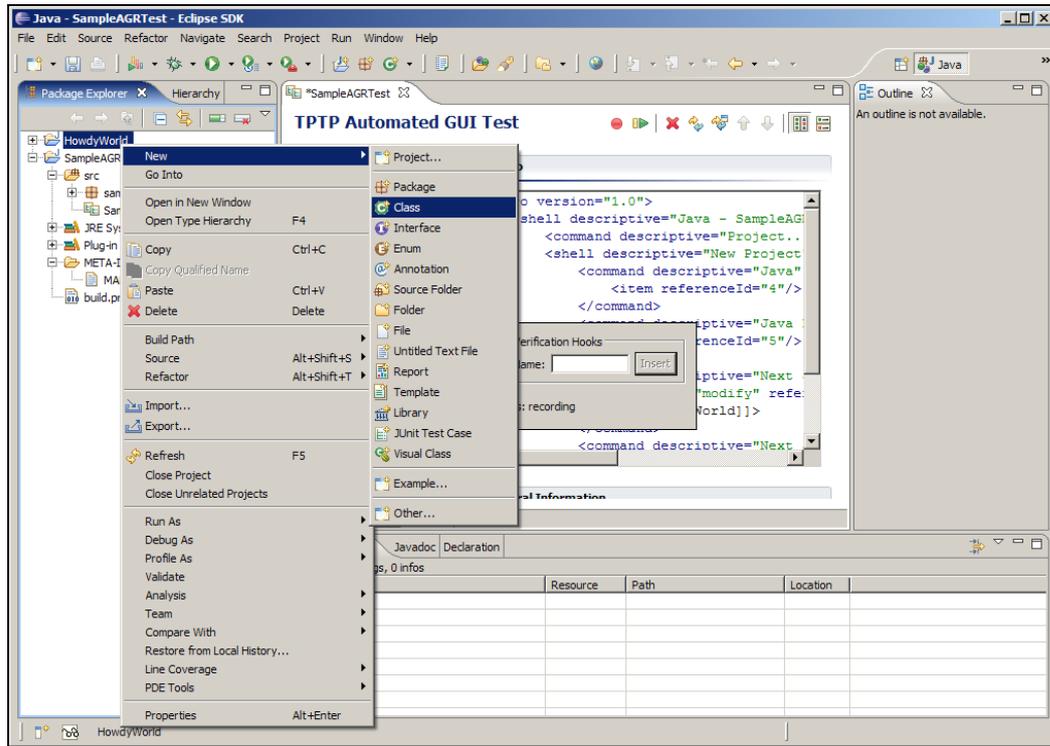
Slide 89

Slide notes:



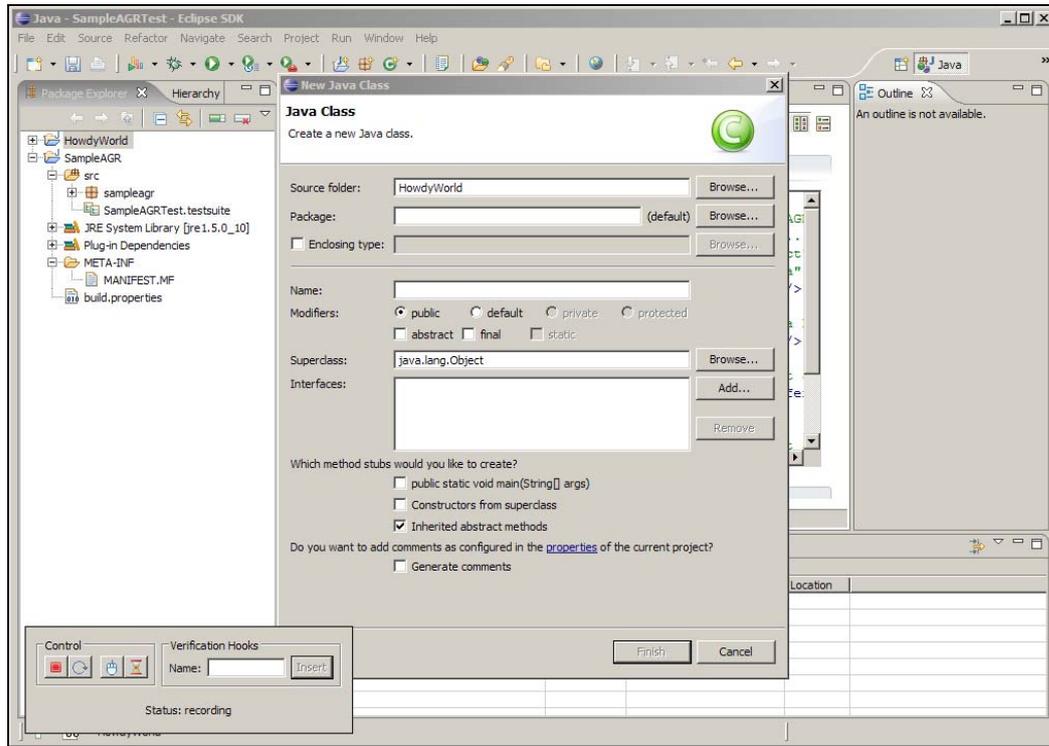
Slide 90

Slide notes:



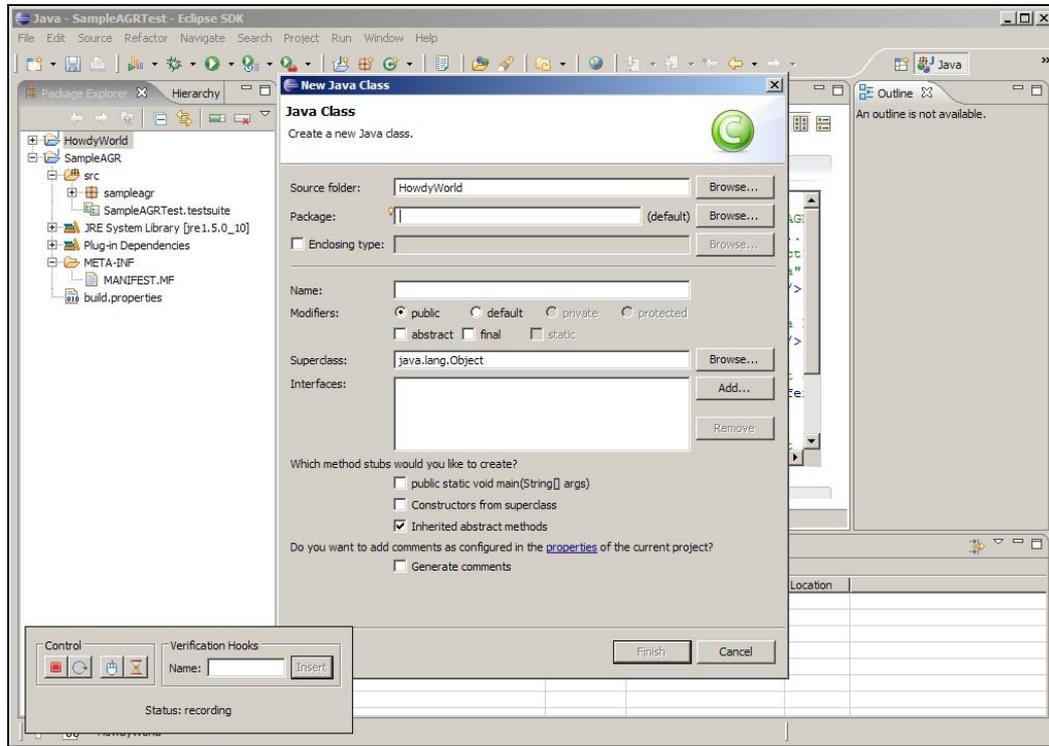
Slide 92

Slide notes:



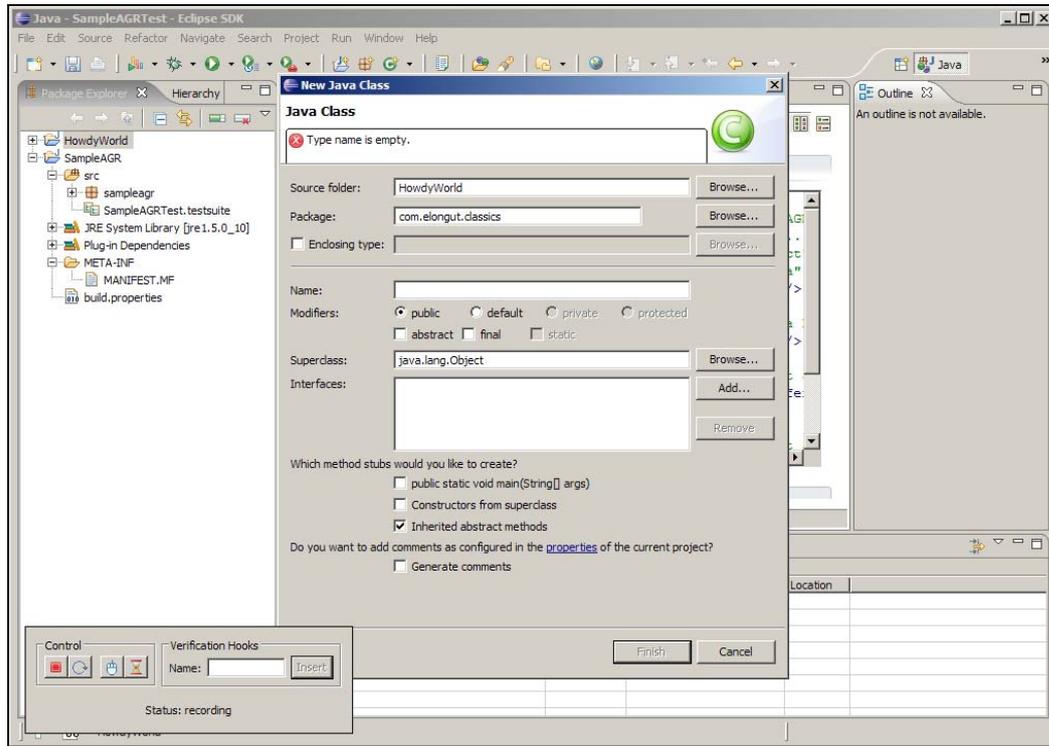
Slide 93

Slide notes: 指定包的名称。



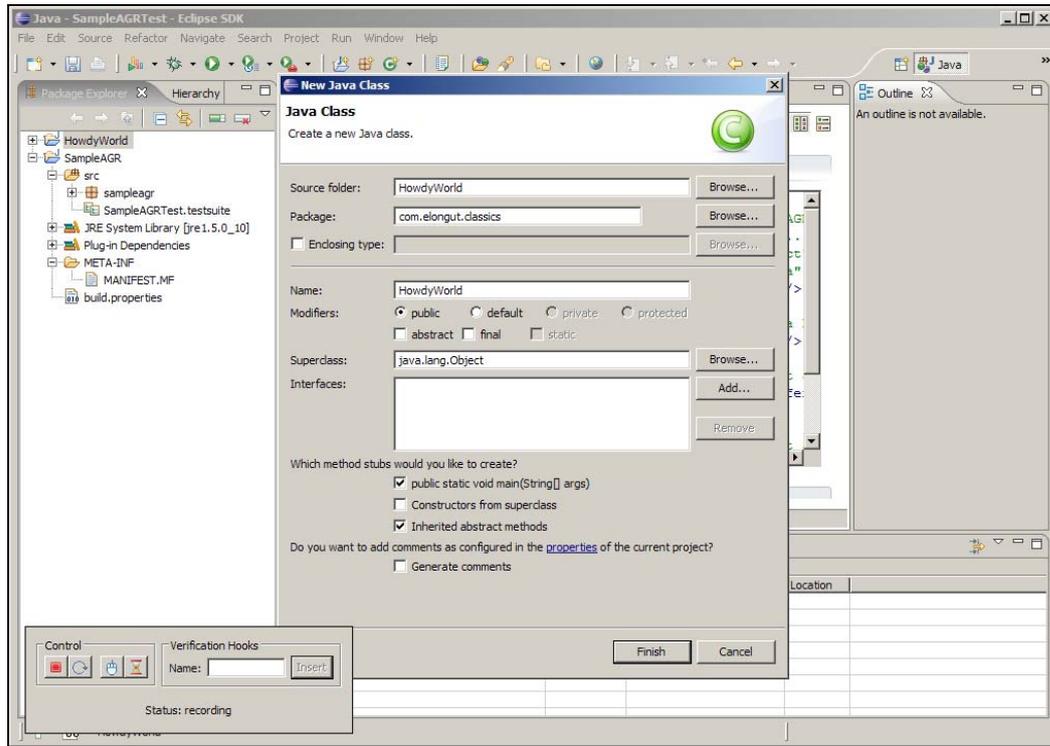
Slide 94

Slide notes: 命名类的名称为 HowdyWorld。



Slide 95

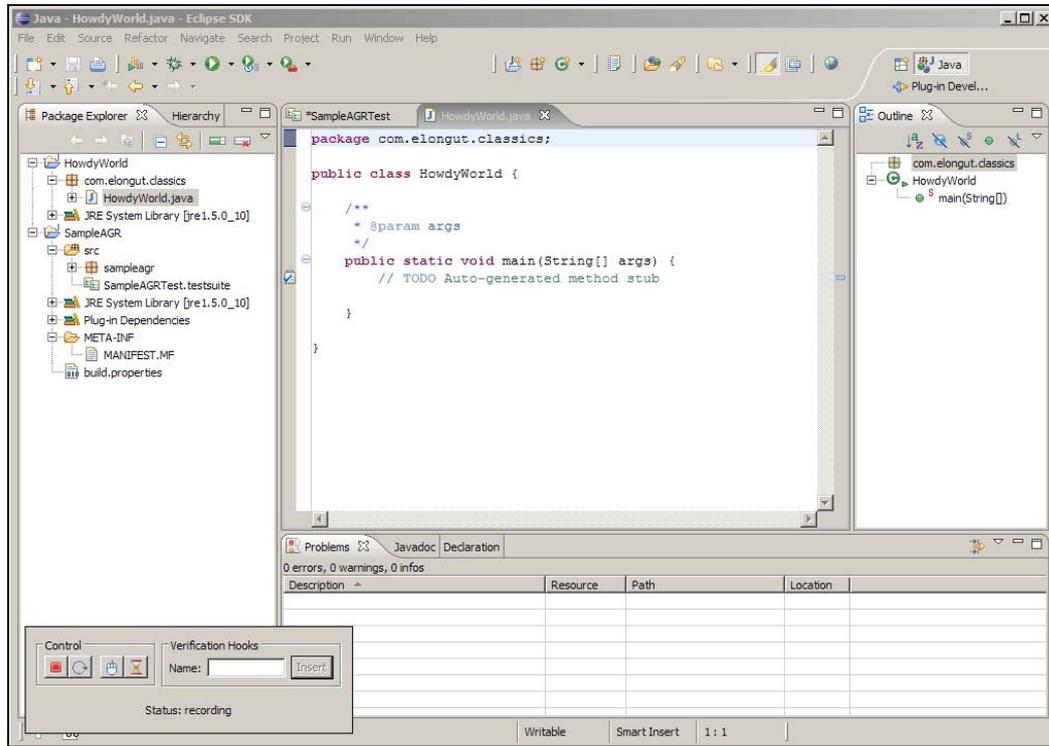
Slide notes: 点击 `public static void main(String[] args)` 方法复选框，为新建的类生成一个 `main` 方法。



Slide 96

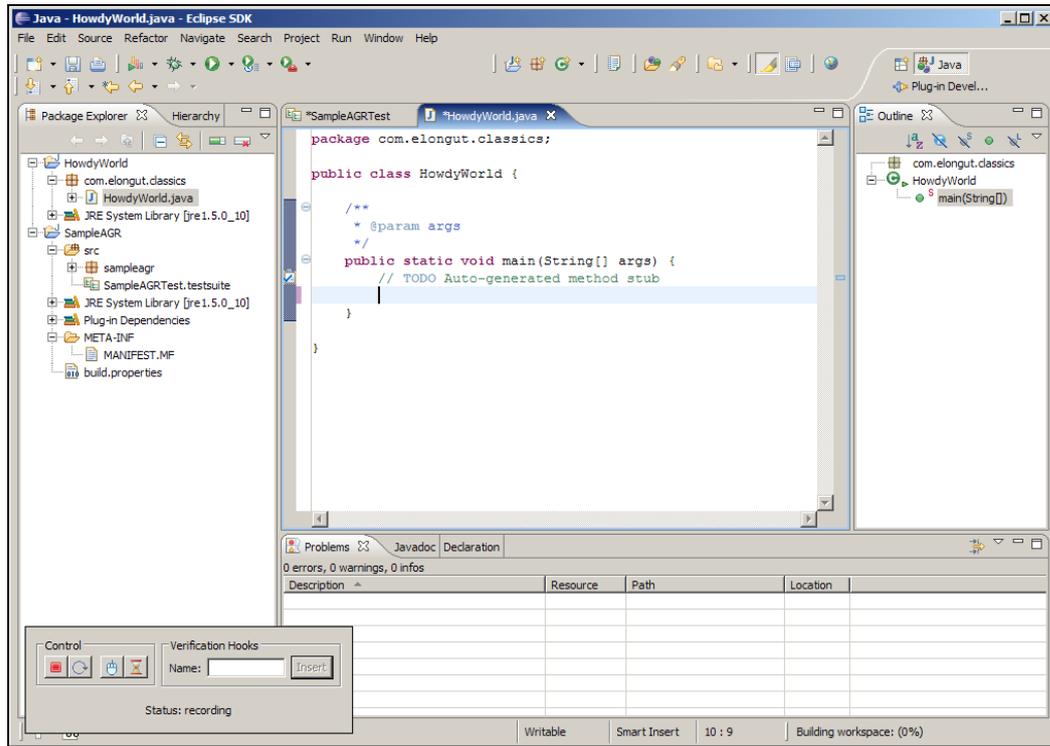
Slide notes: 点击完成。

Text Captions: Click the Finish button



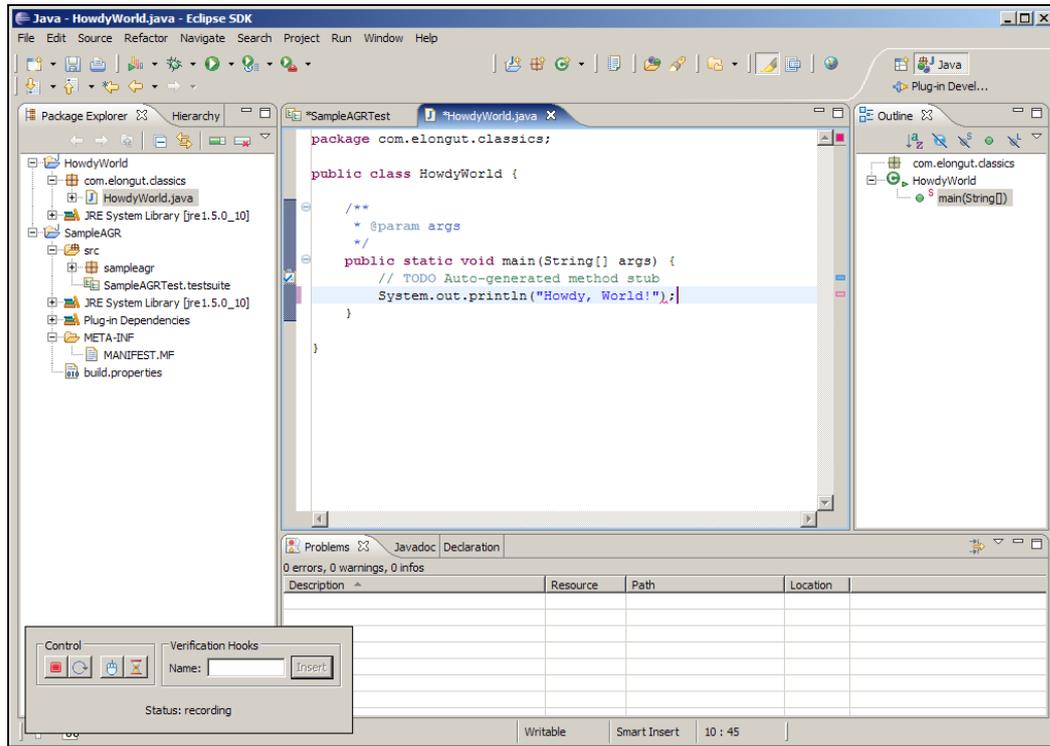
Slide 97

Slide notes: 添加一条简单的 println 语句。



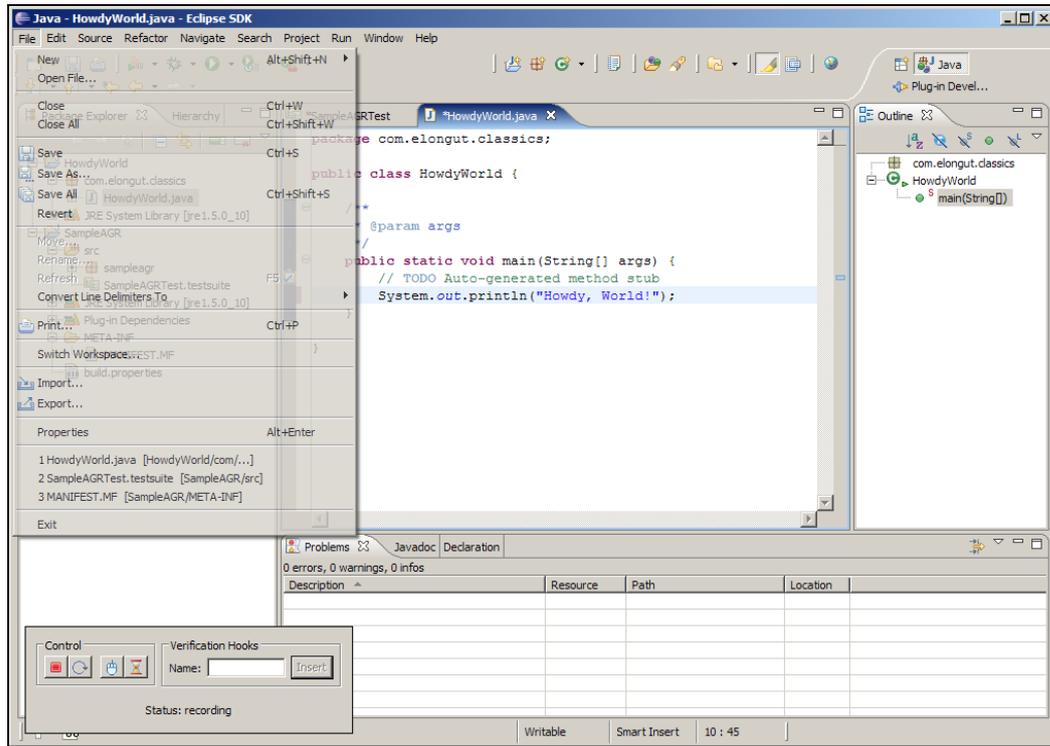
Slide 98

Slide notes:



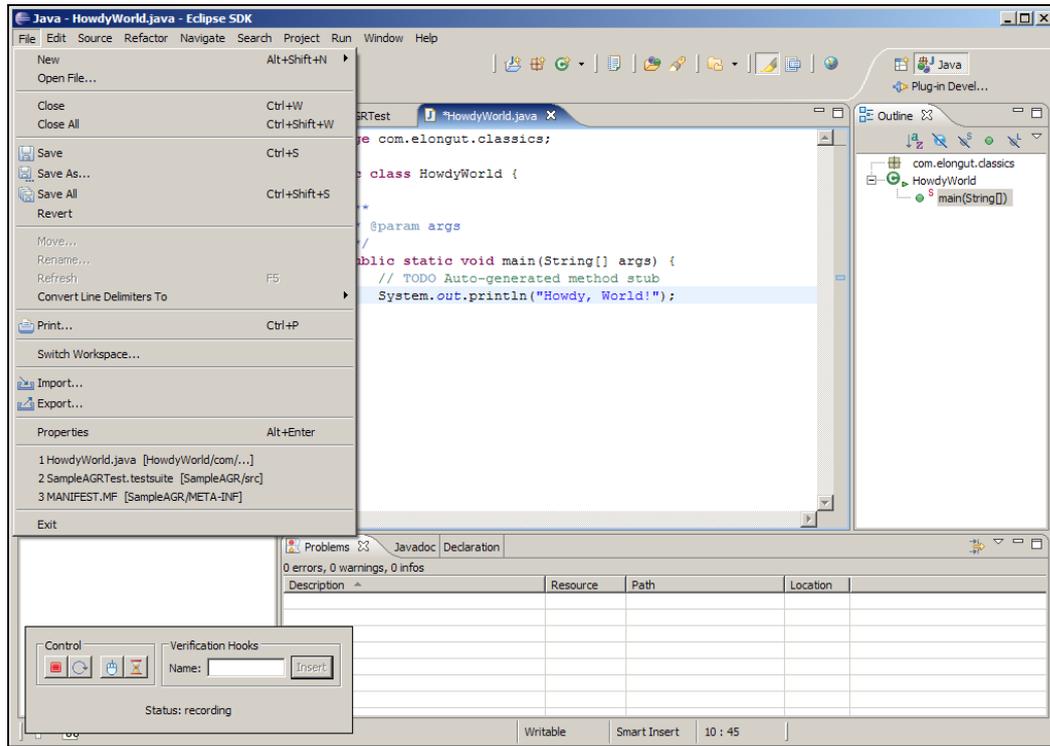
Slide 99

Slide notes: 保存文件。



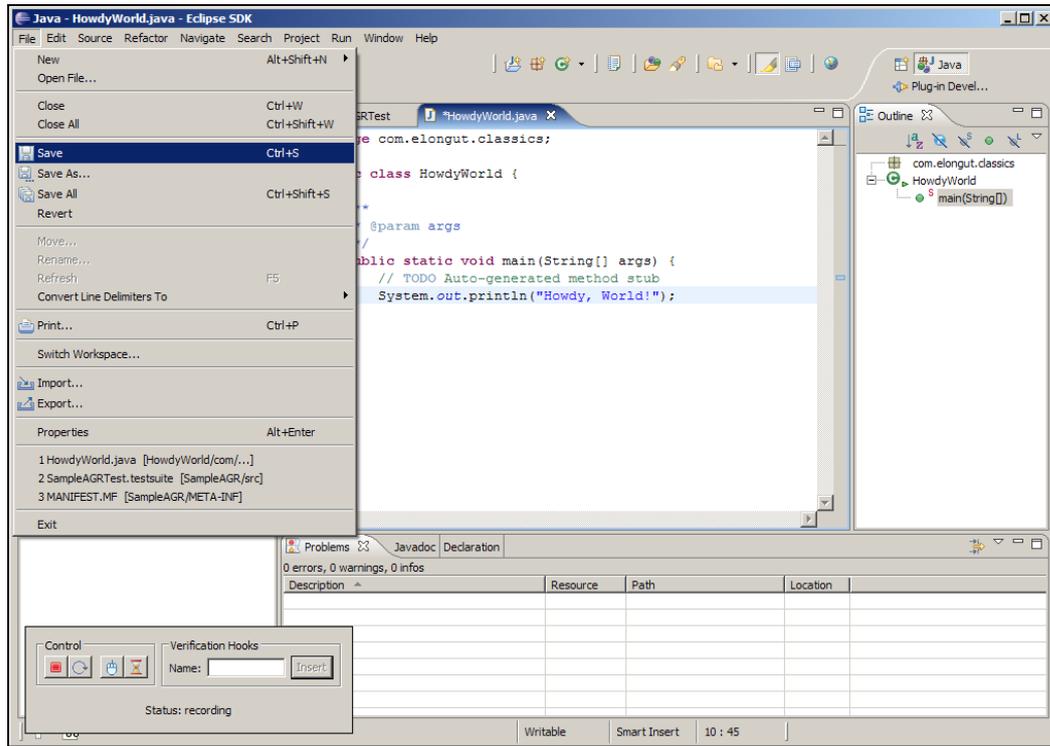
Slide 100

Slide notes:



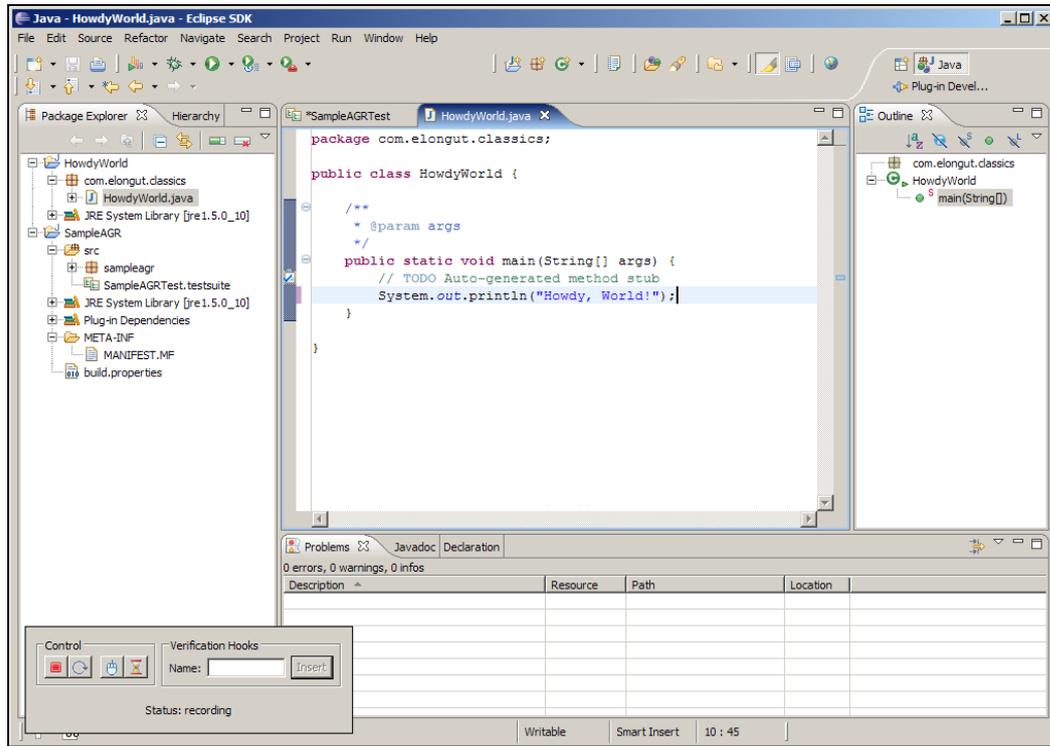
Slide 101

Slide notes:



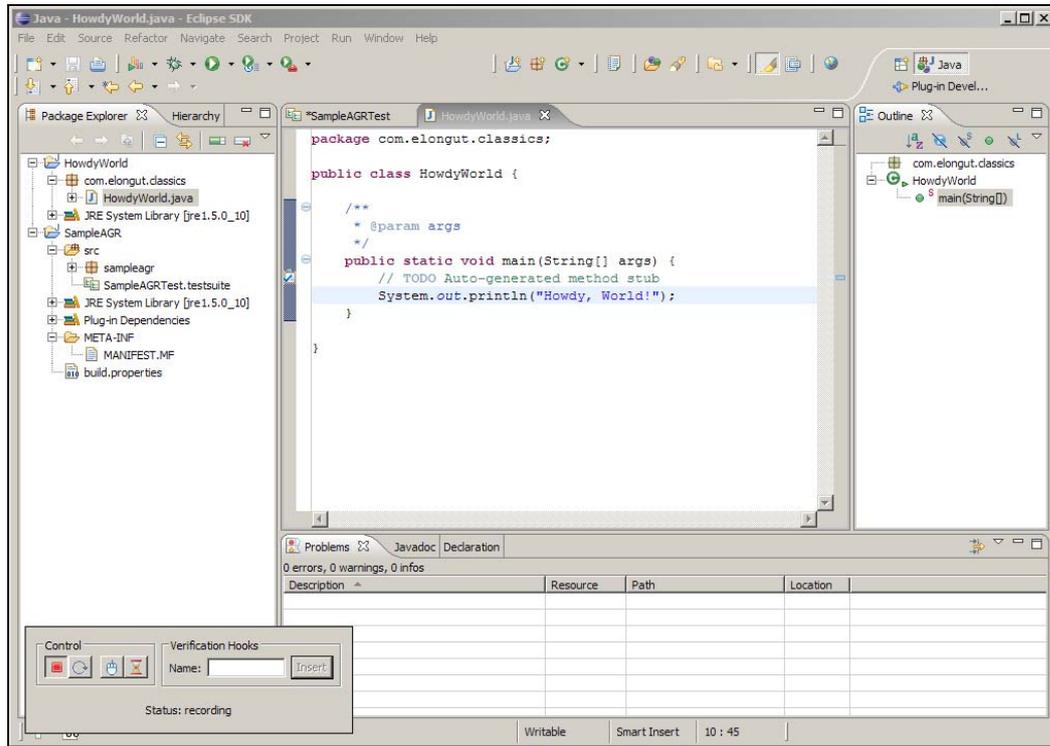
Slide 102

Slide notes:



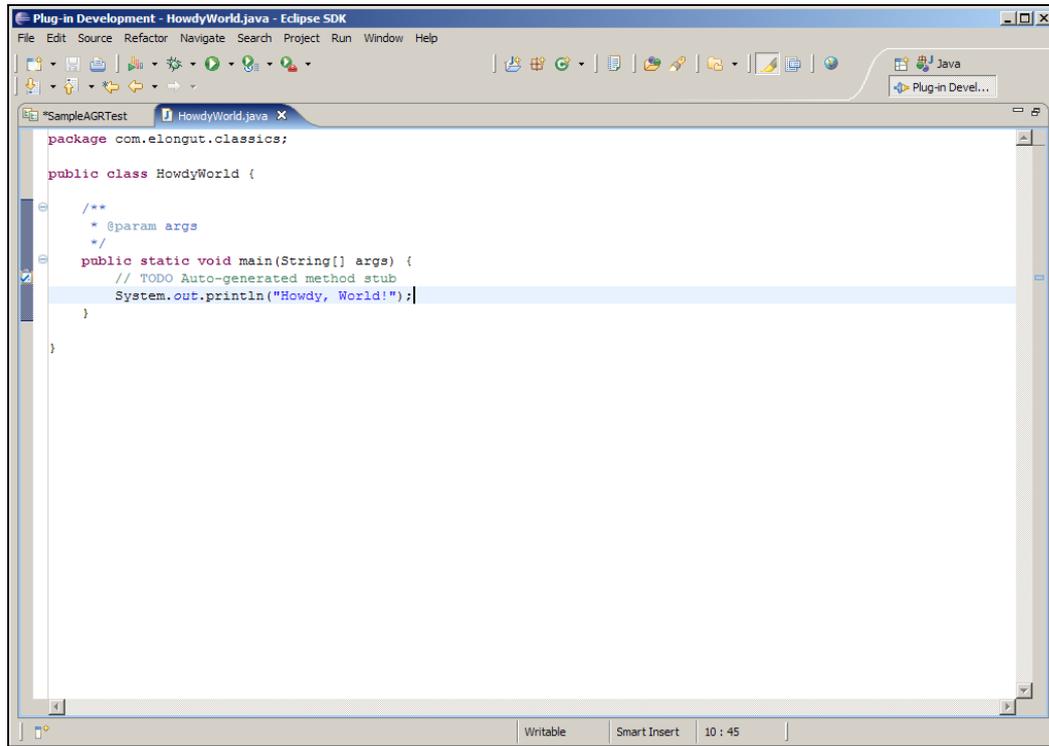
Slide 103

Slide notes:



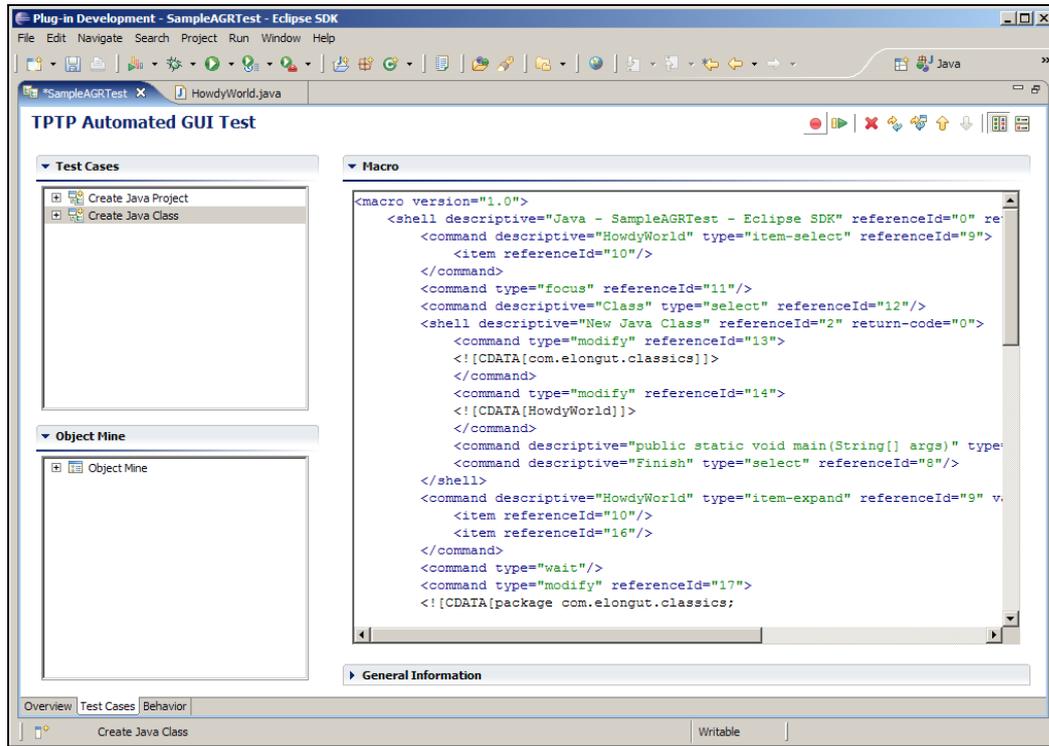
Slide 104

Slide notes: 最后，点击录制器上的停止按钮。



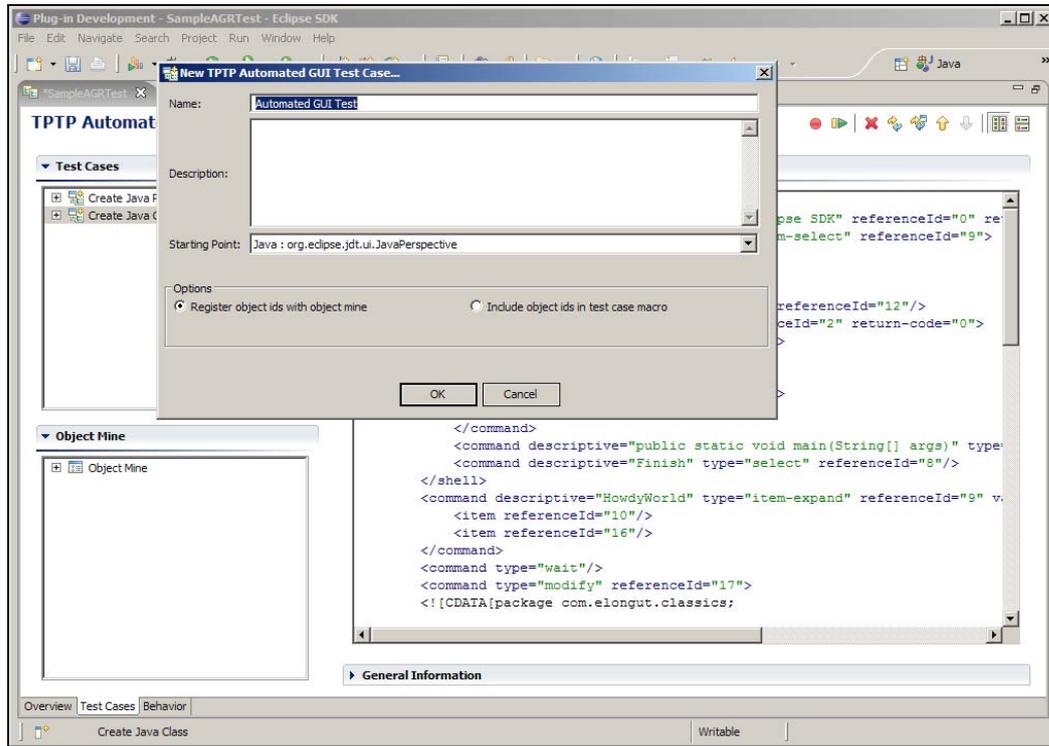
Slide 105

Slide notes: 返回到自动化测试编辑器，录制另一个测试用例。



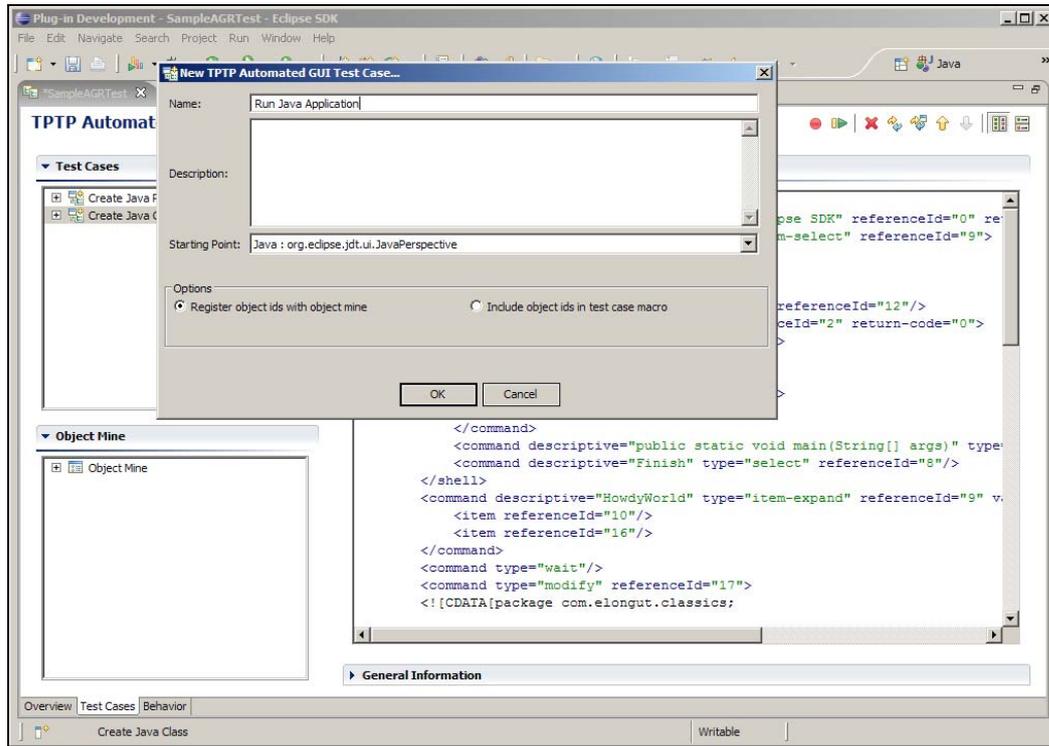
Slide 106

Slide notes: 点击红色的录制按钮。



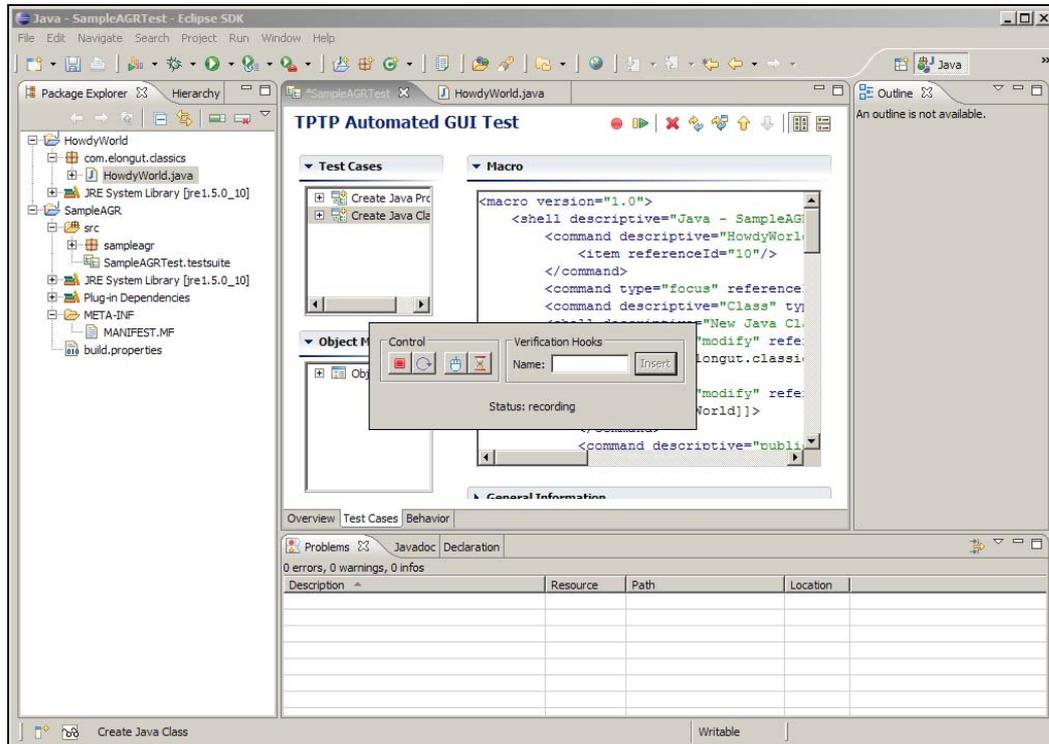
Slide 107

Slide notes: 指定测试用例名称为 Run Java Application，起始点仍然选择 Java 透视图。点击确定。



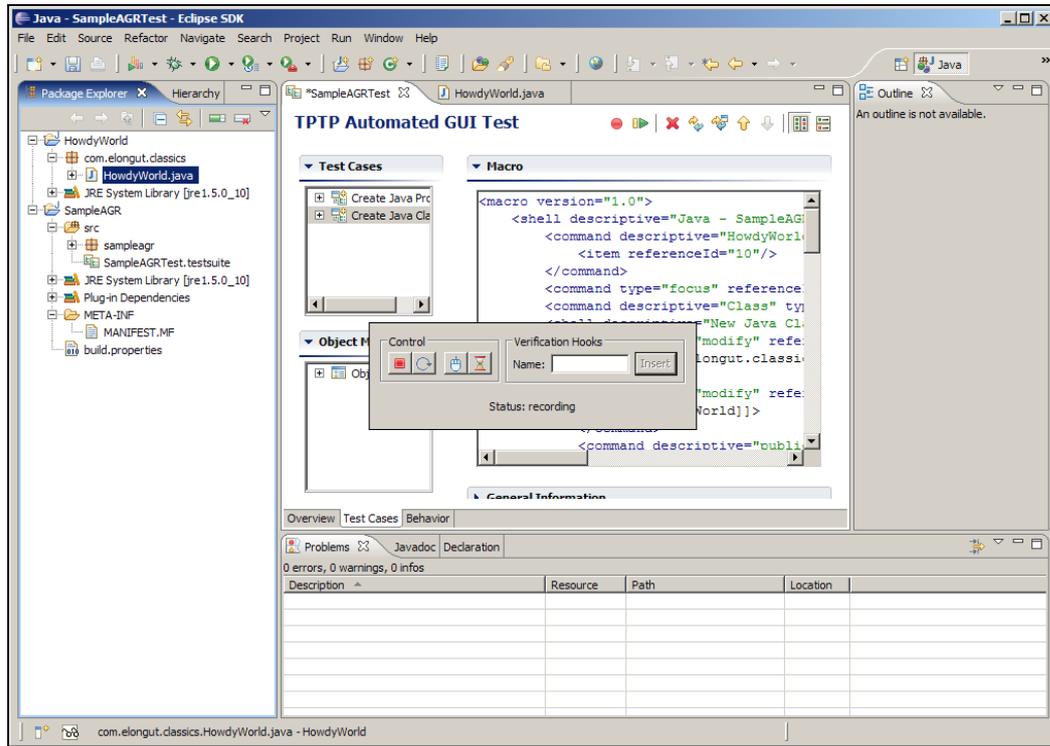
Slide 108

Slide notes:



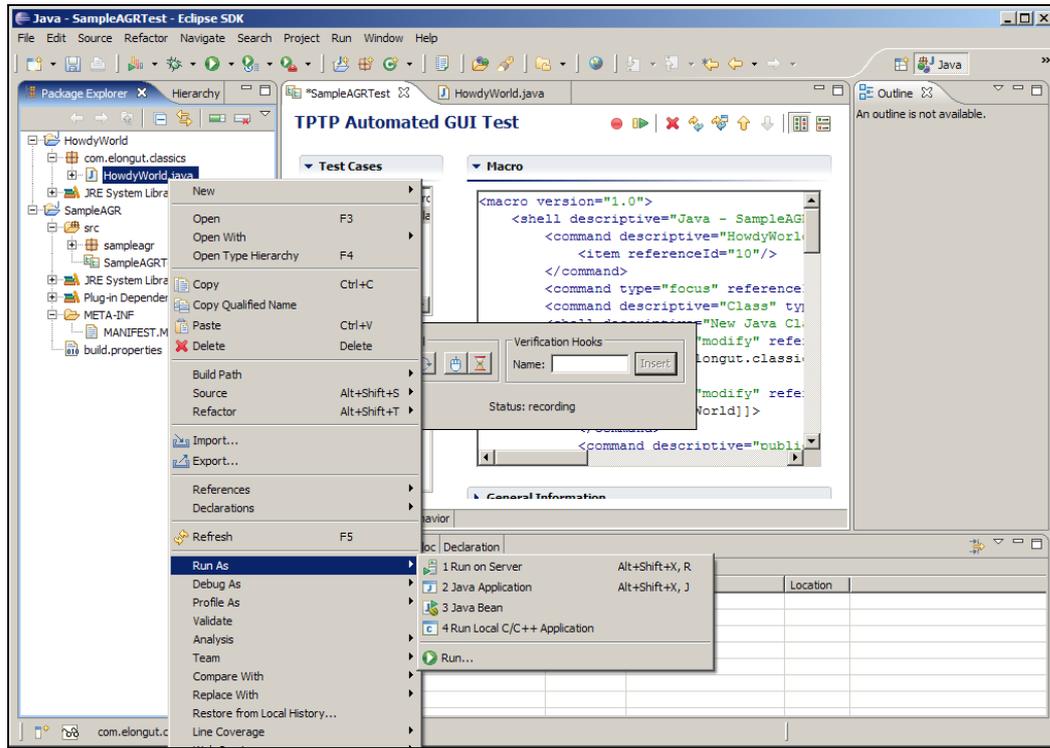
Slide 109

Slide notes: 右键单击 HowdyWorld.java 文件。



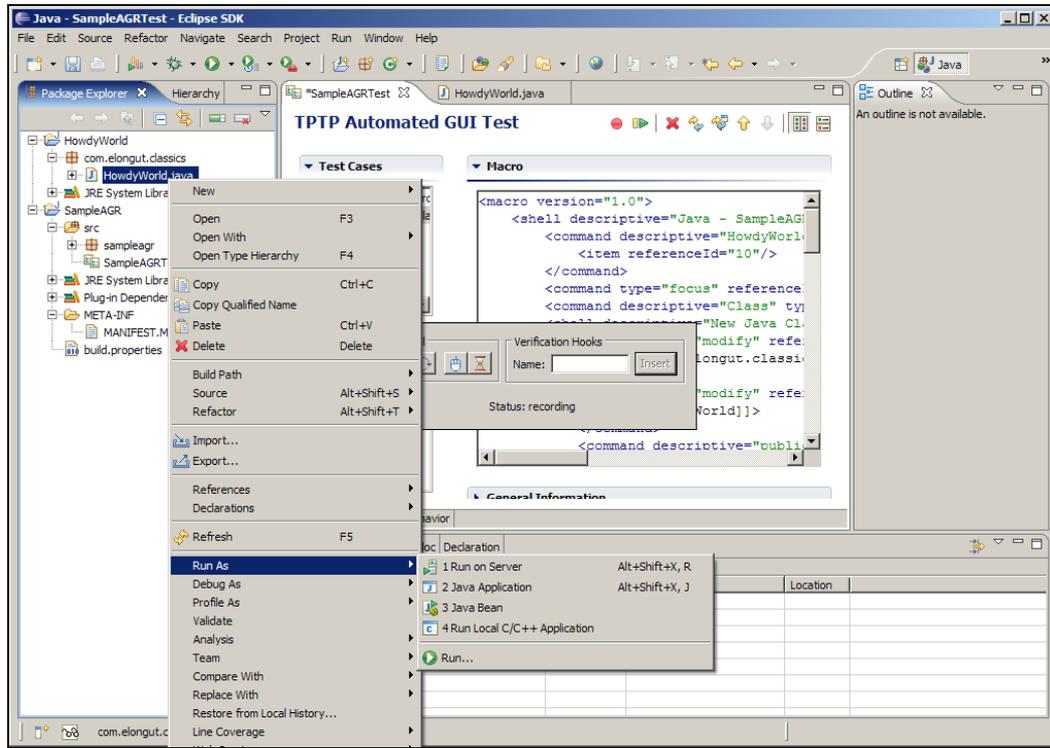
Slide 110

Slide notes:



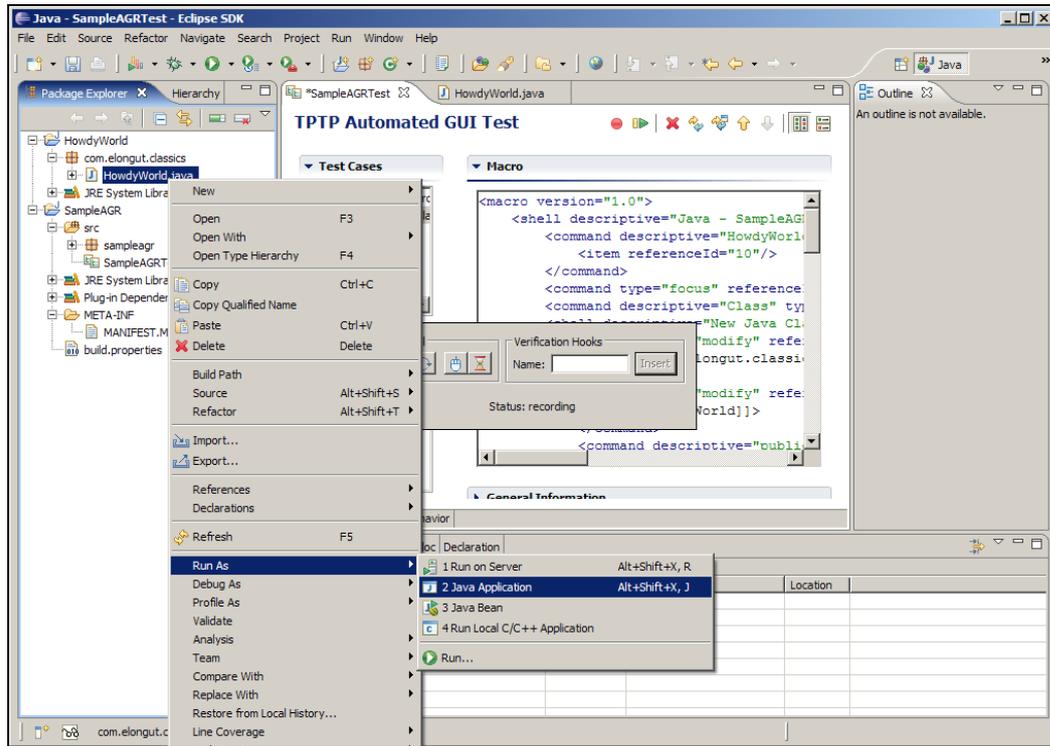
Slide 112

Slide notes:



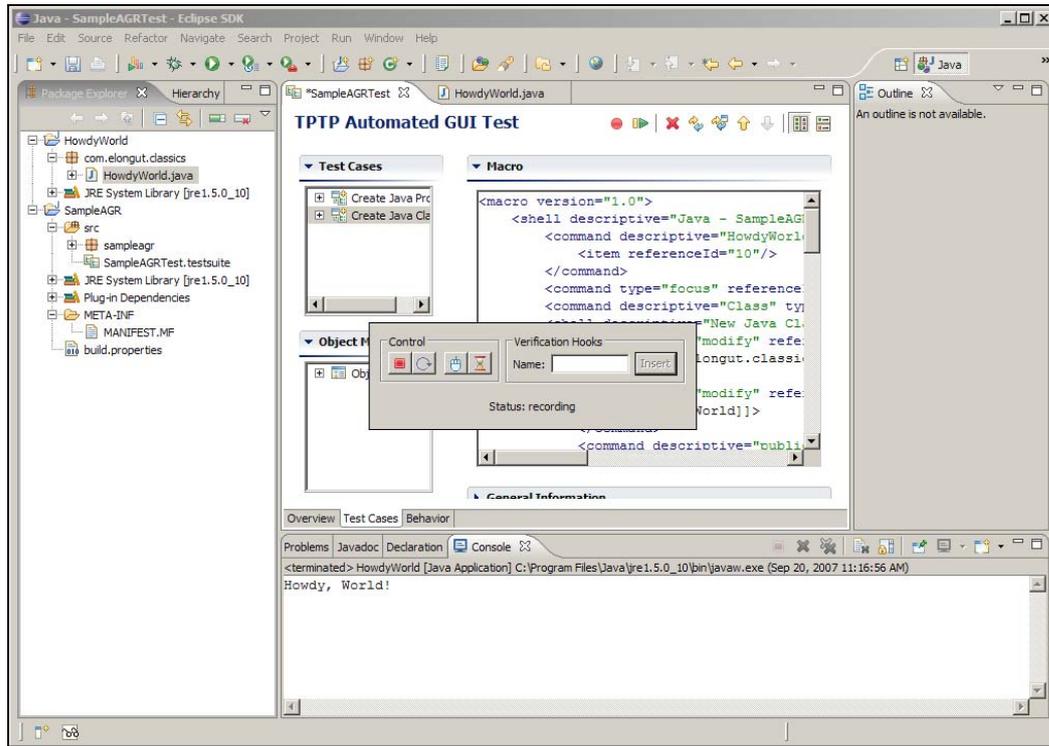
Slide 113

Slide notes:



Slide 114

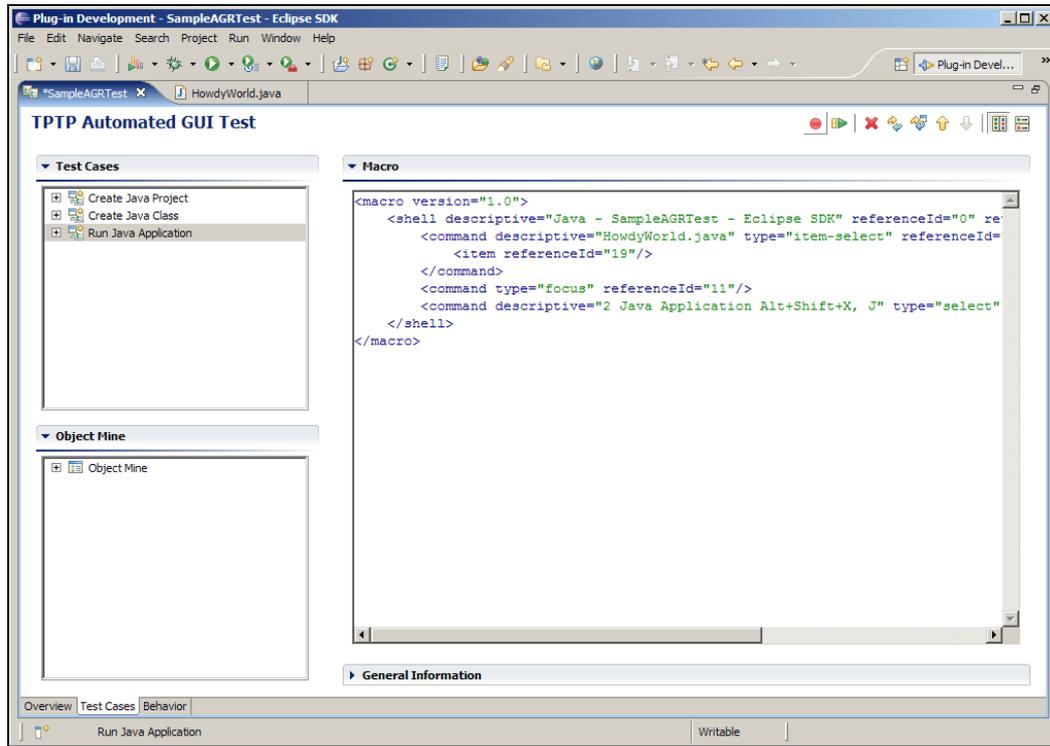
Slide notes:



Slide 115

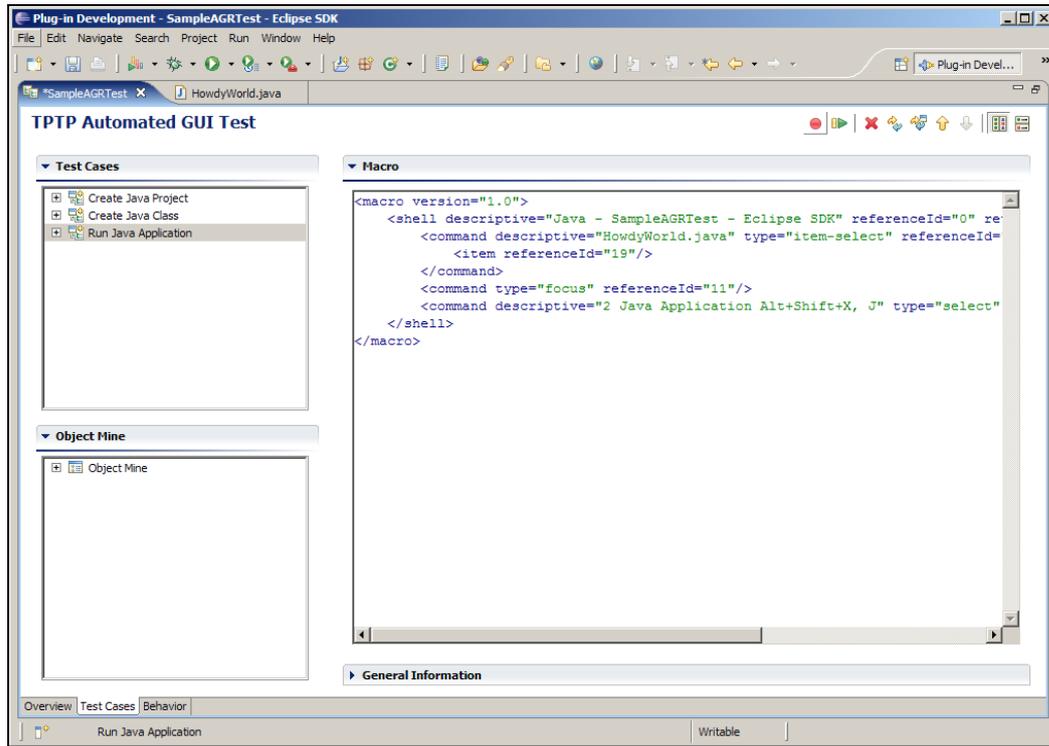
Slide notes: 确认控制台输出了一行 "Howdy, World!", 点击结束按钮。

Text Captions: Click the Terminate button



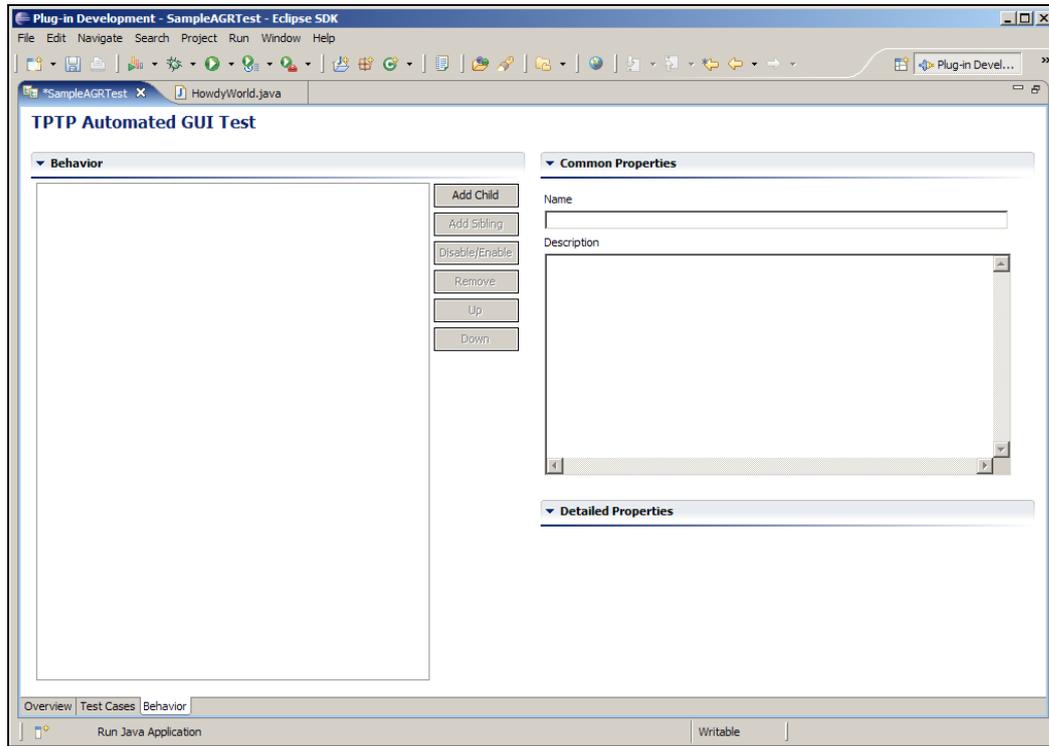
Slide 116

Slide notes:



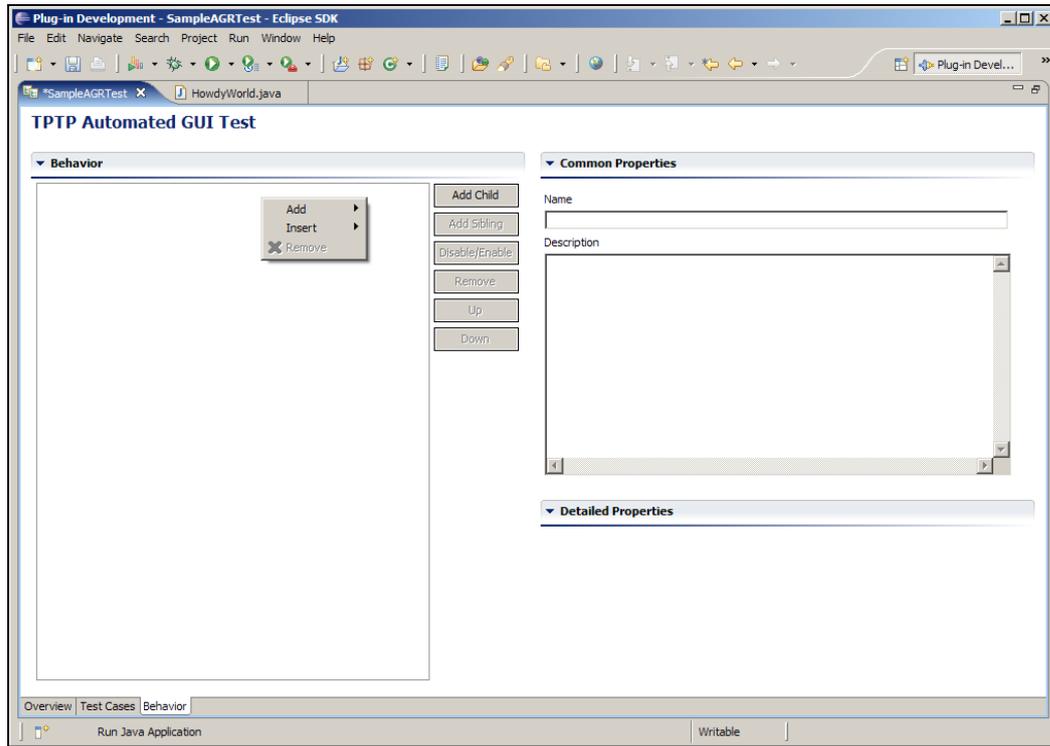
Slide 117

Slide notes: 点击行为标签页。



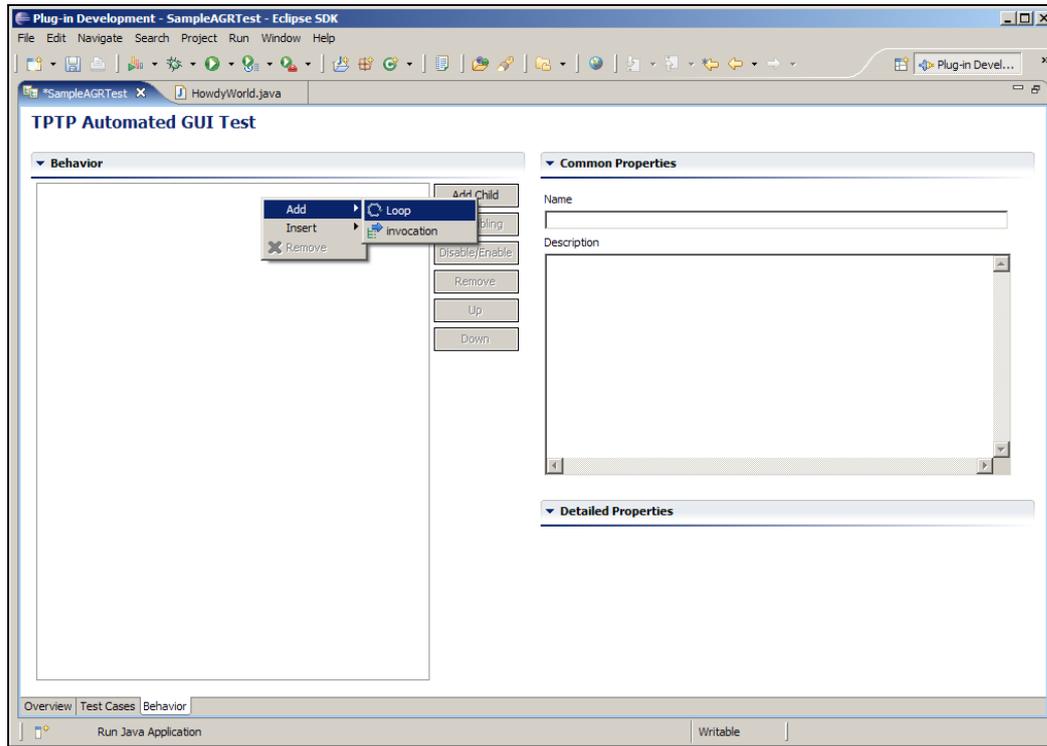
Slide 118

Slide notes: 右键点击行为编辑器。



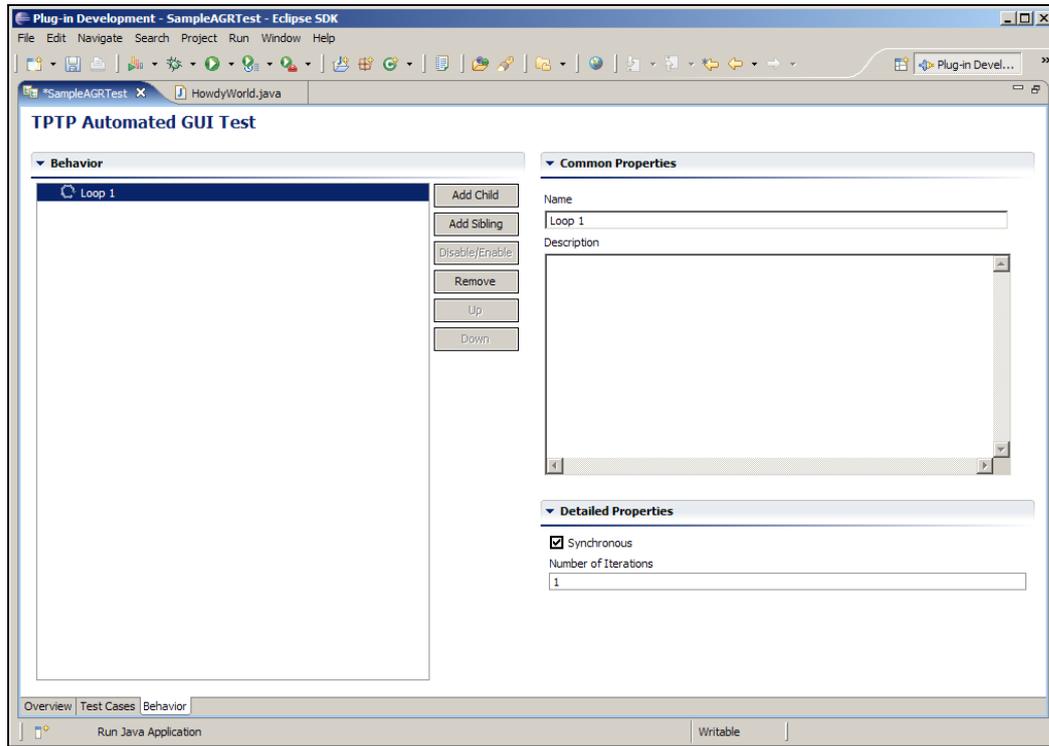
Slide 119

Slide notes: 选择添加 > 循环。



Slide 120

Slide notes:



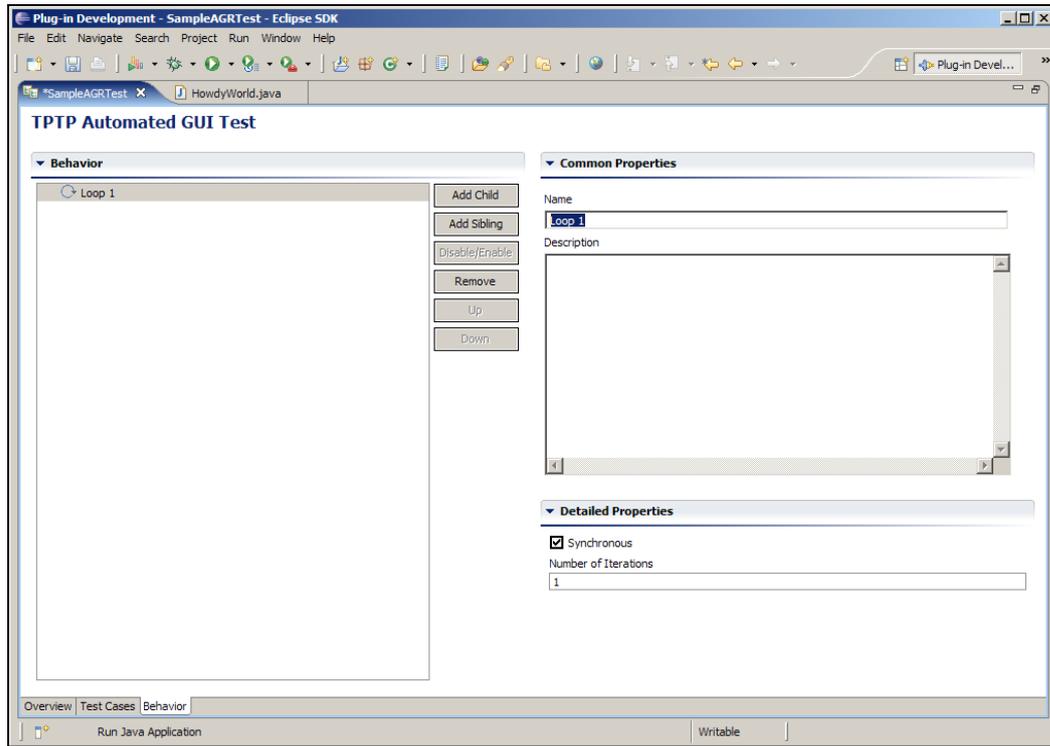
Slide 121

Slide notes: 把循环命名为创建并运行 Java 应用。



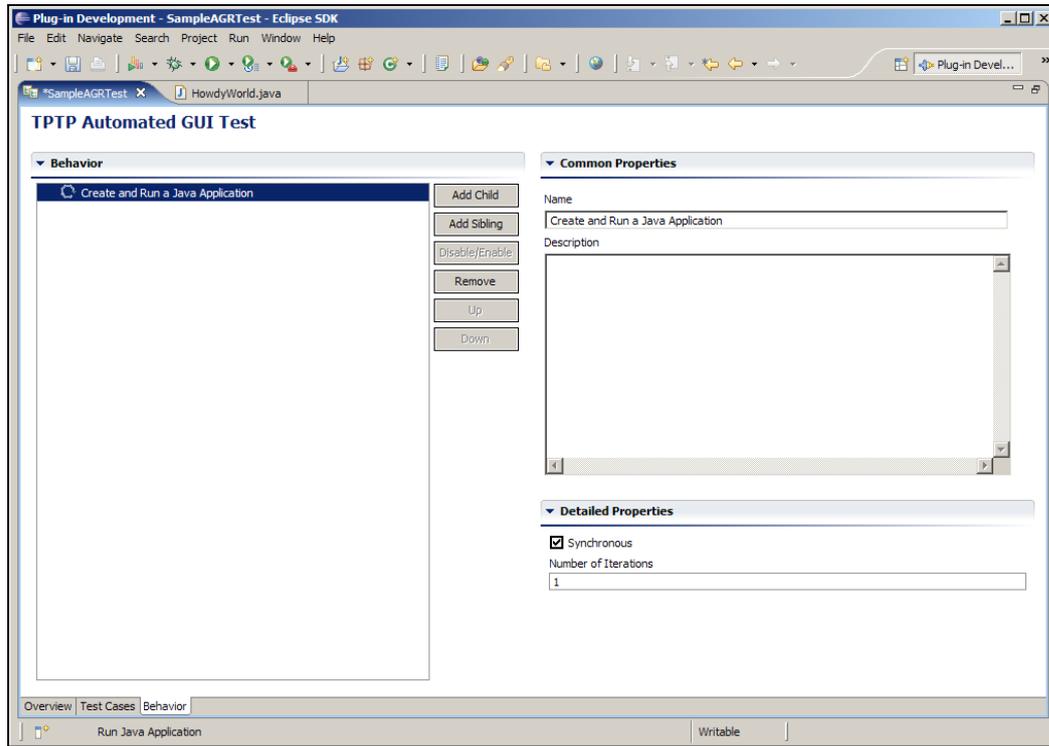
Slide 122

Slide notes:



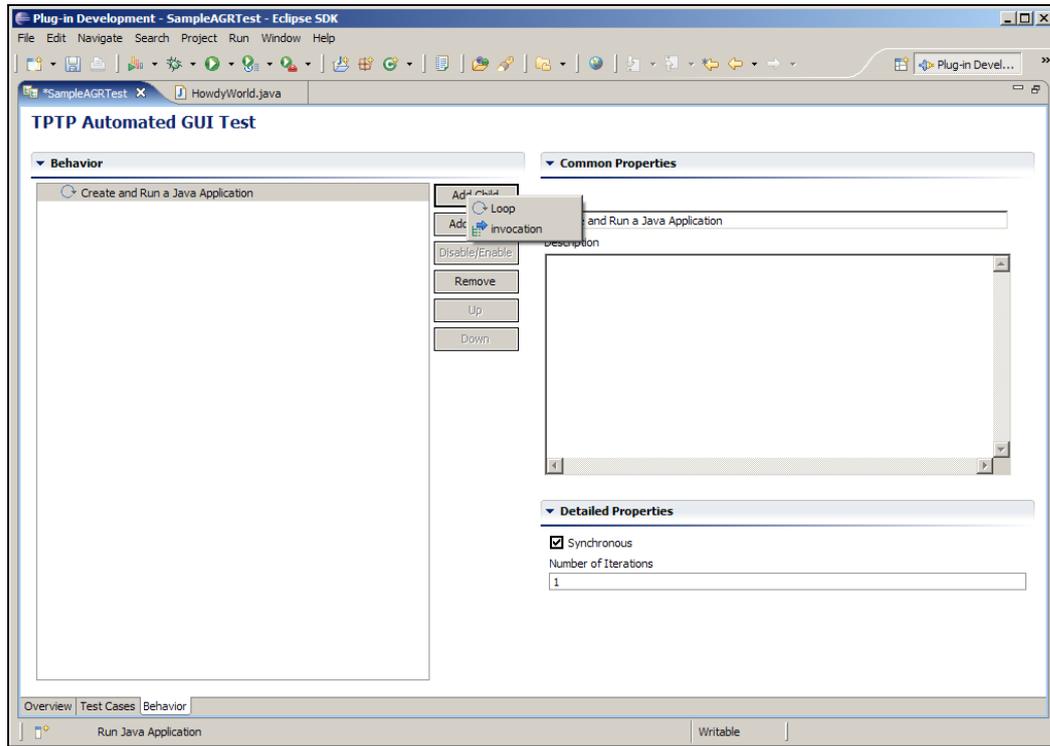
Slide 123

Slide notes: 确认选中了循环。



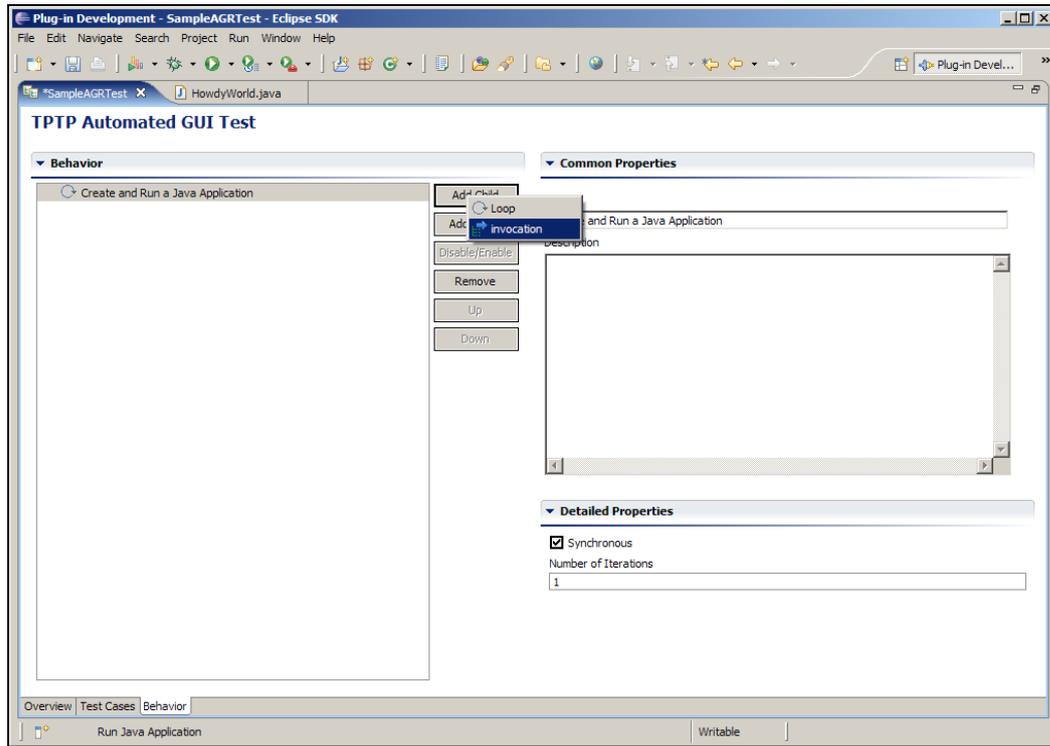
Slide 124

Slide notes: 点击添加子项目按钮。



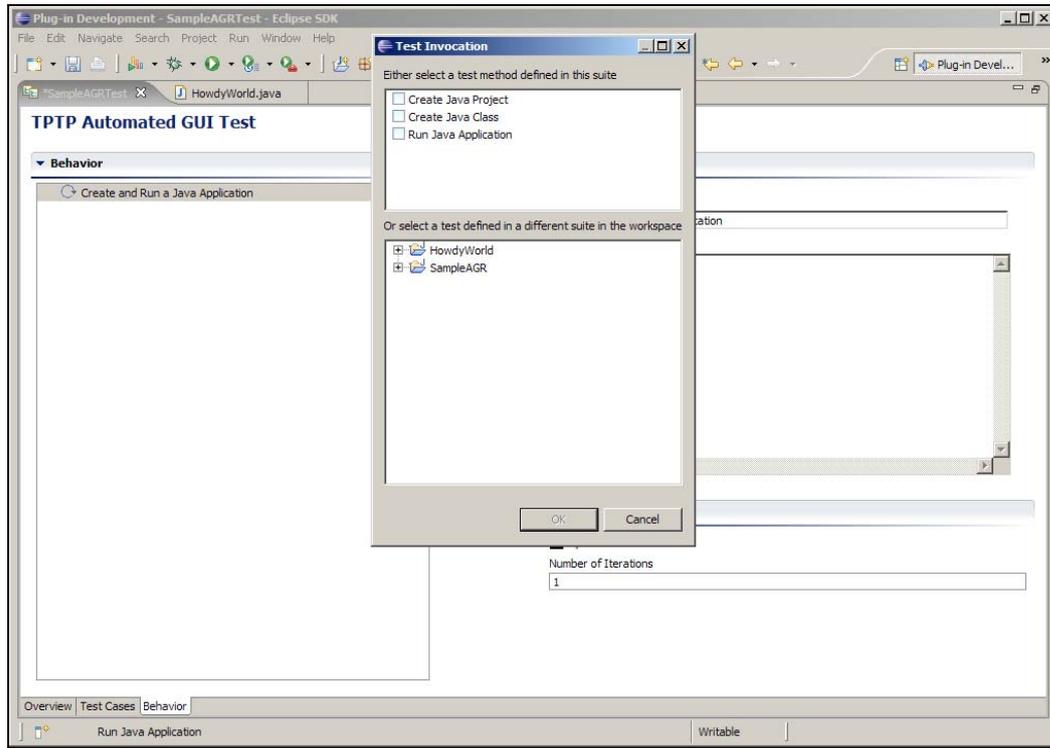
Slide 125

Slide notes: 选择调用。



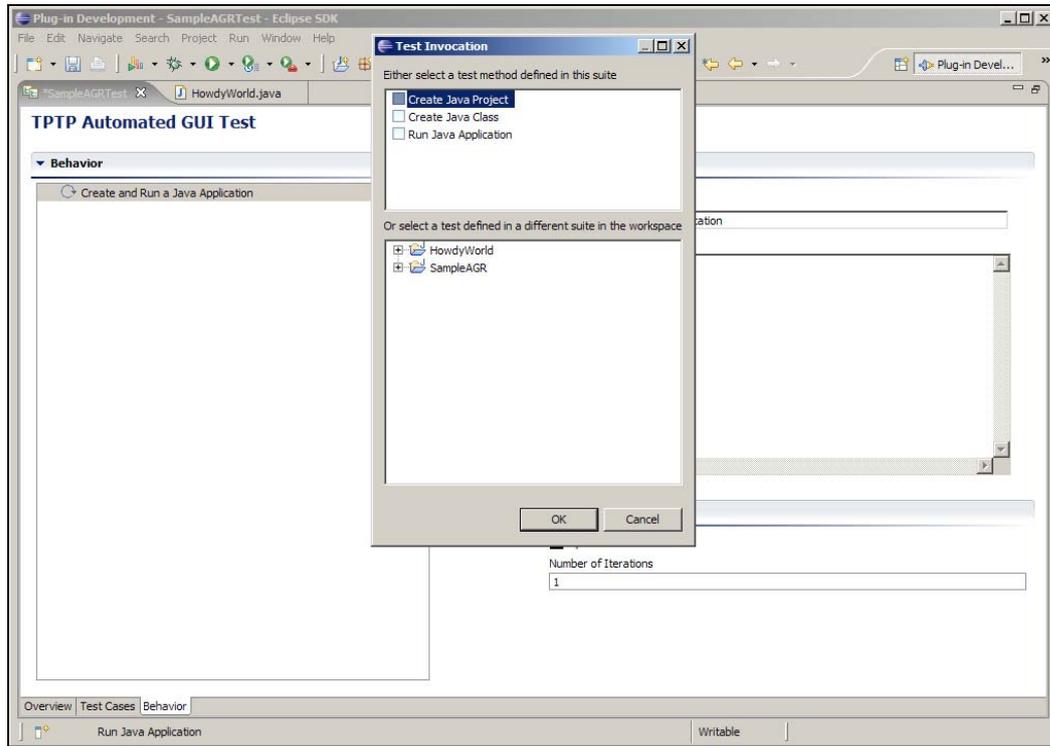
Slide 126

Slide notes:



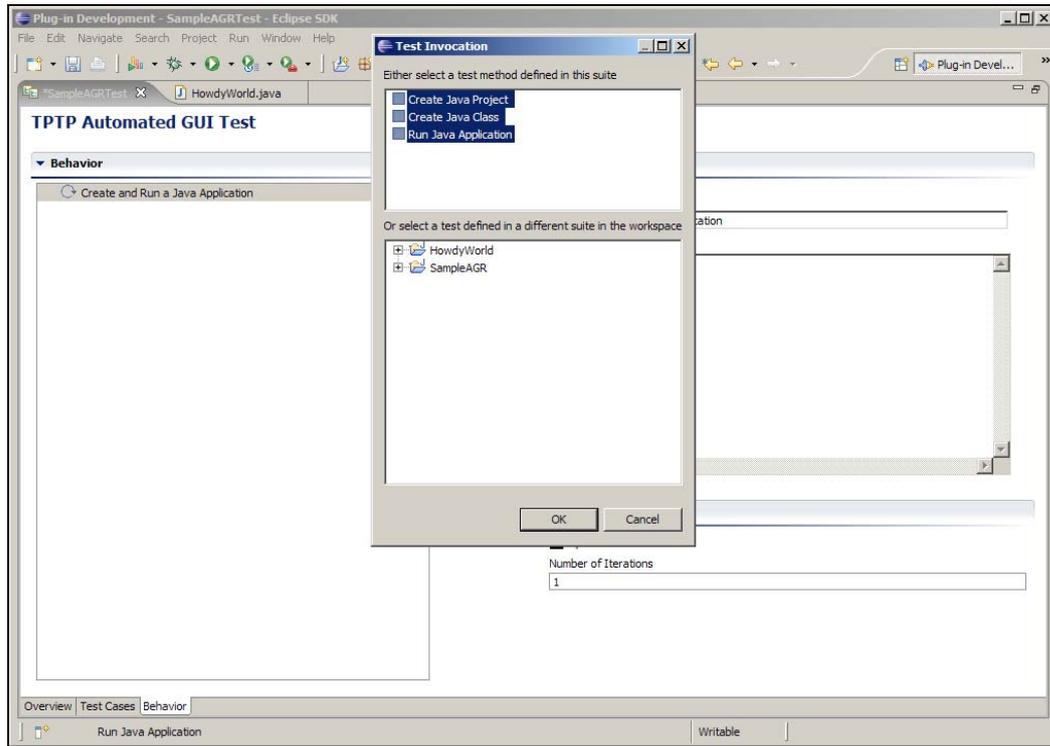
Slide 127

Slide notes: 选择所有三个测试方法。在这里还可以选择其他项目中的测试方法。



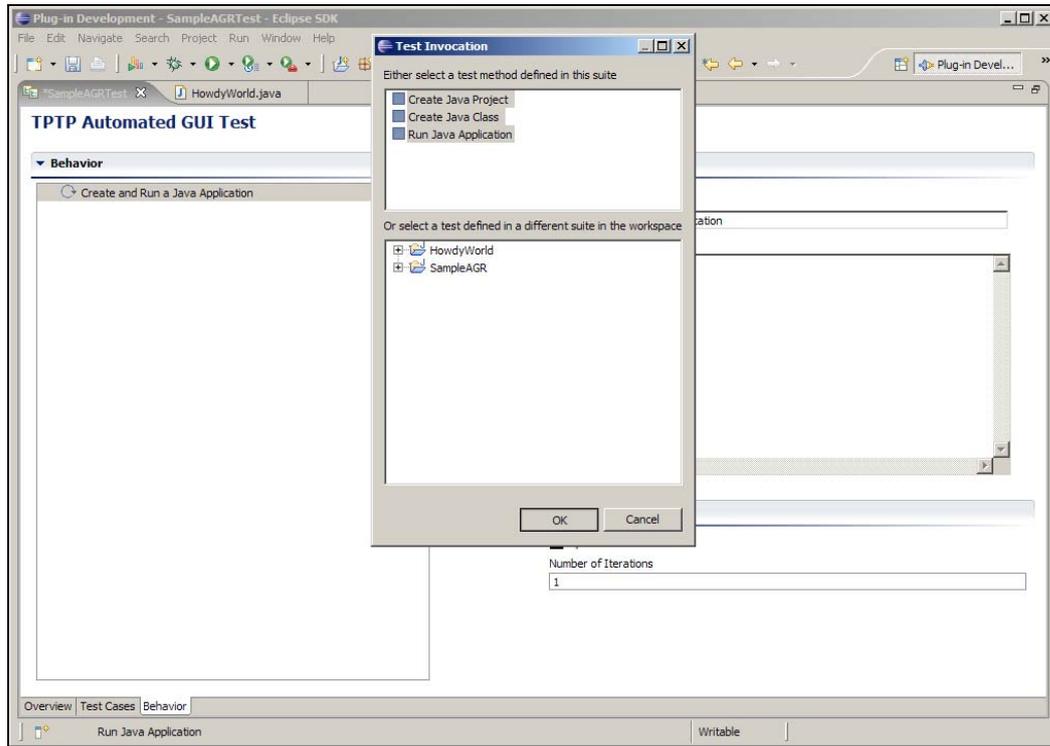
Slide 128

Slide notes:



Slide 129

Slide notes: 点击确定。



Slide 130

Slide notes:



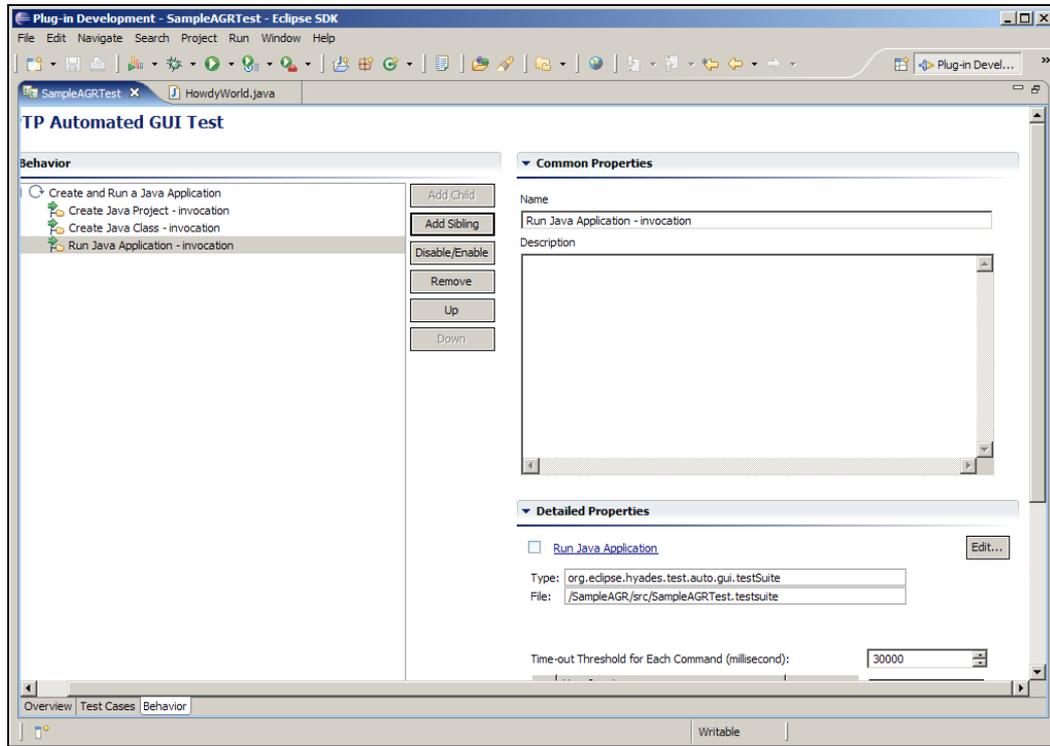
Slide 131

Slide notes:



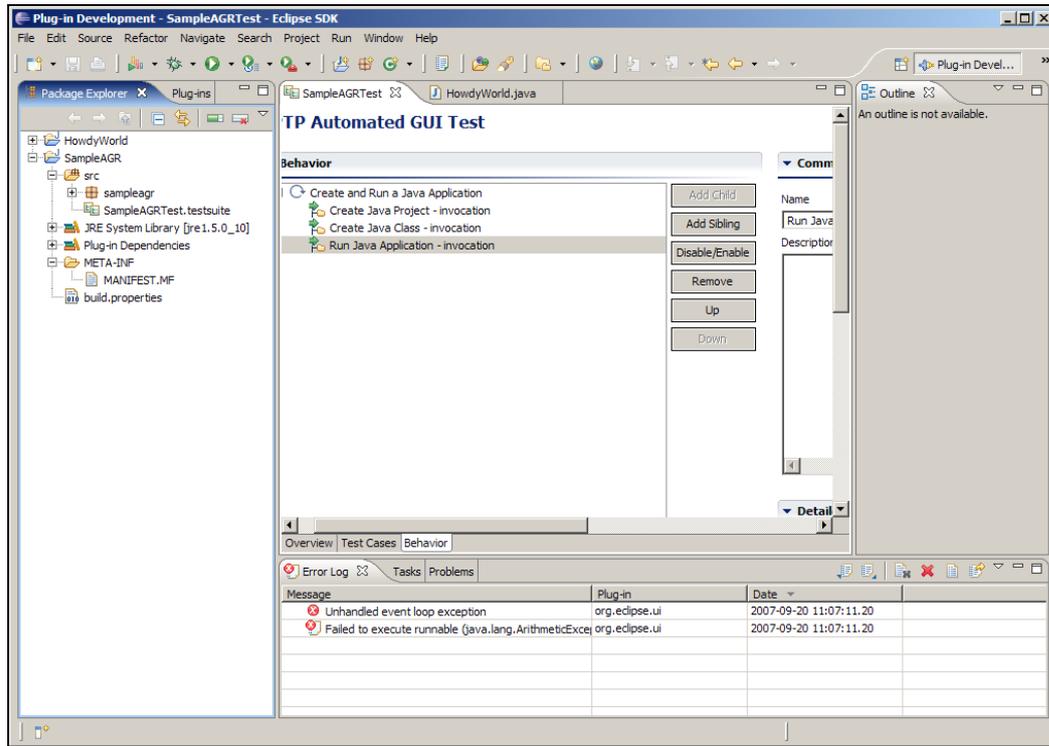
Slide 133

Slide notes: 保存测试用例。



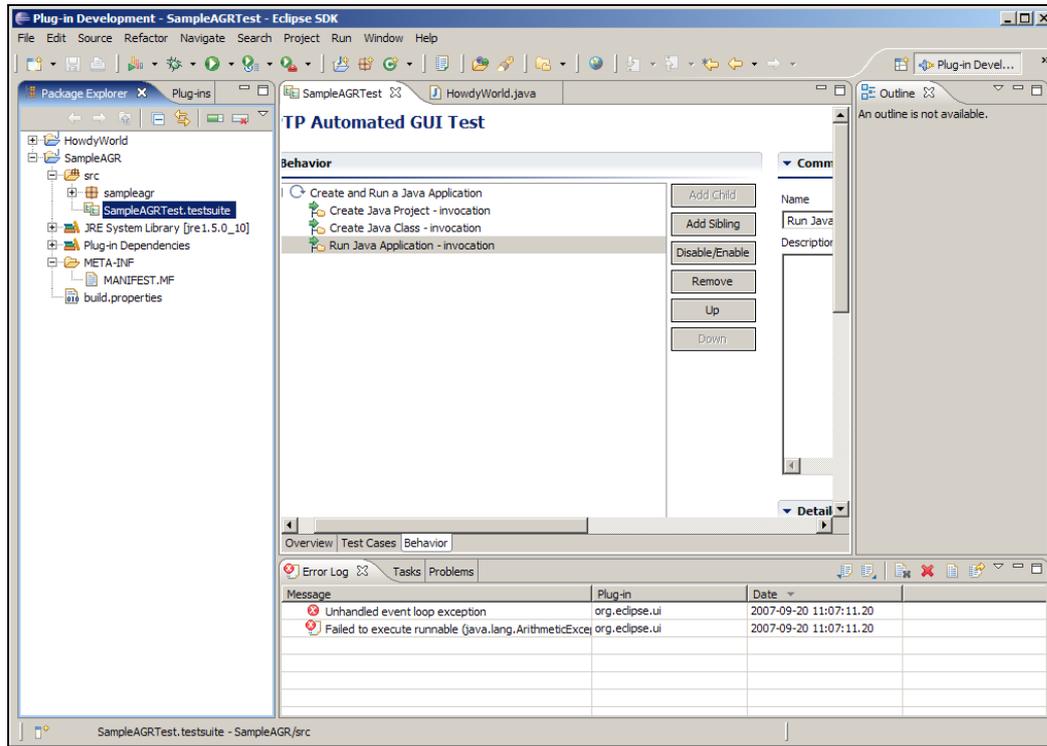
Slide 138

Slide notes:



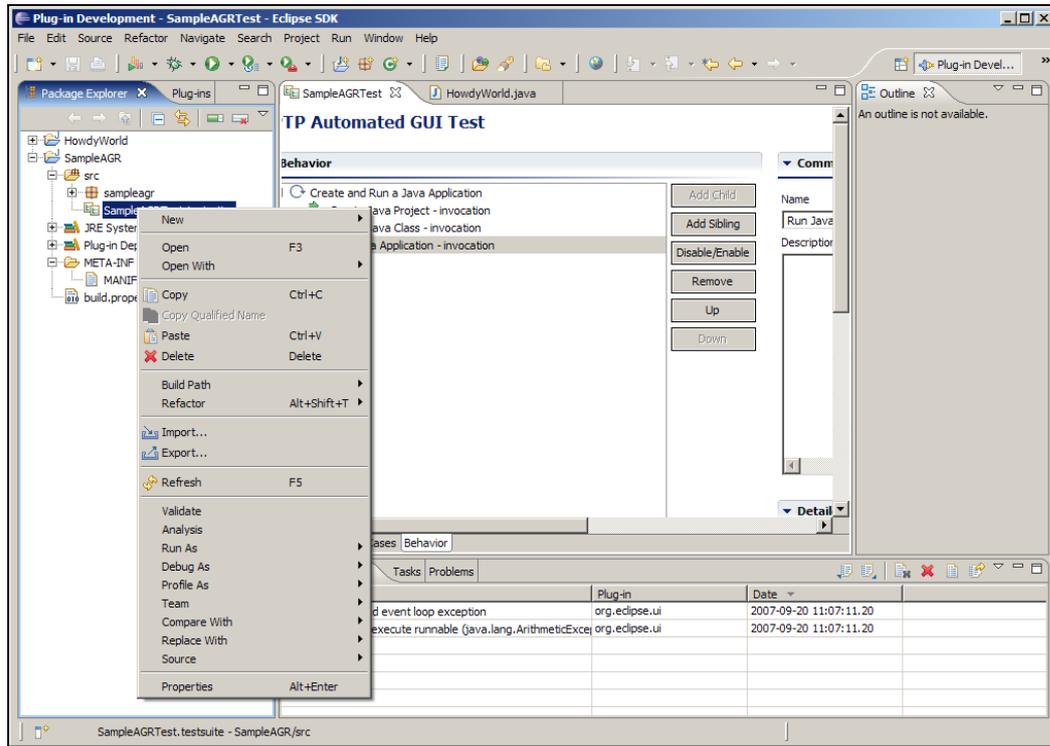
Slide 139

Slide notes: 回到包浏览器中，右键单击 SampleAGRTTest 测试集。



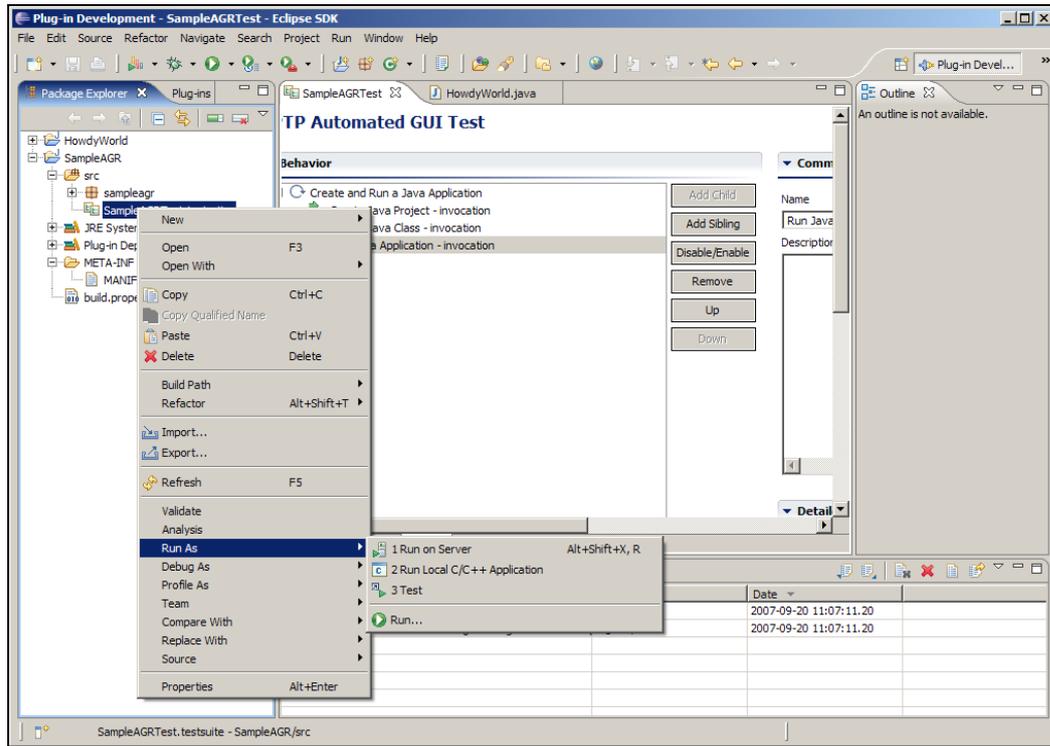
Slide 140

Slide notes:



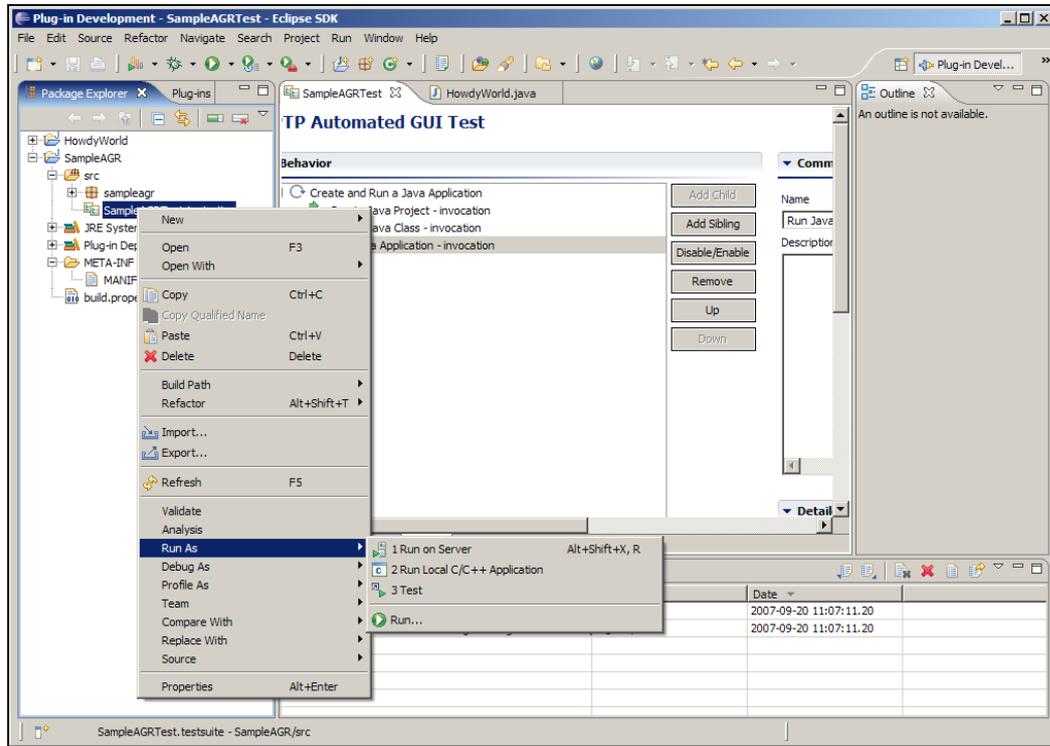
Slide 141

Slide notes: 点击运行行为> 测试。



Slide 142

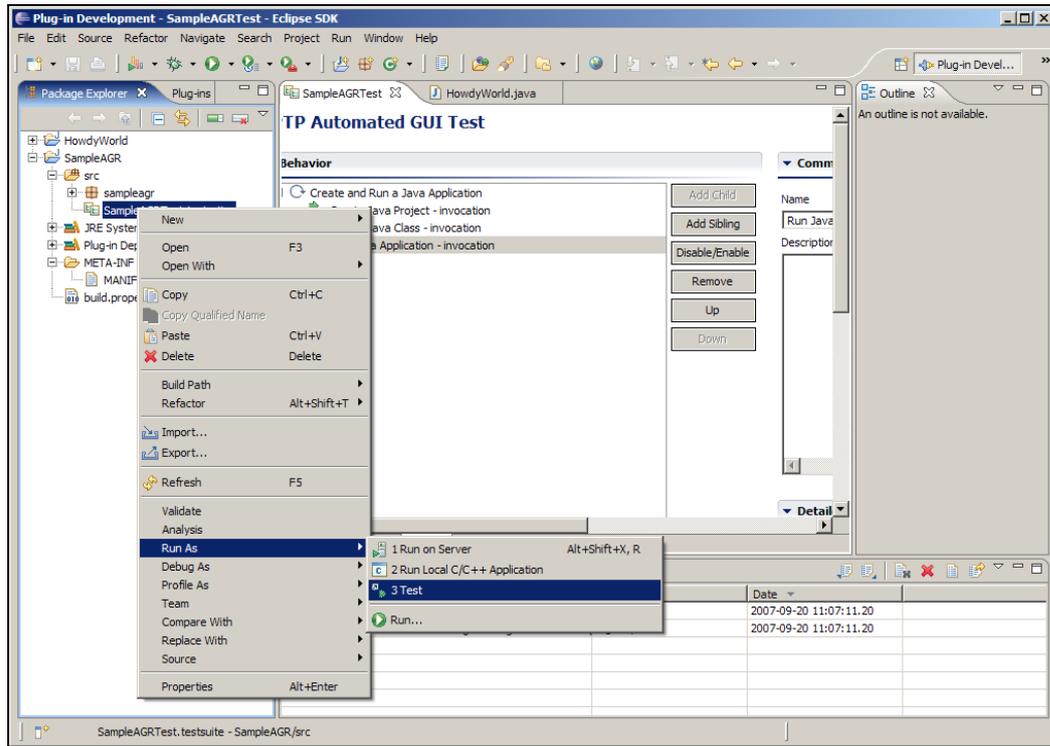
Slide notes:



Slide 143

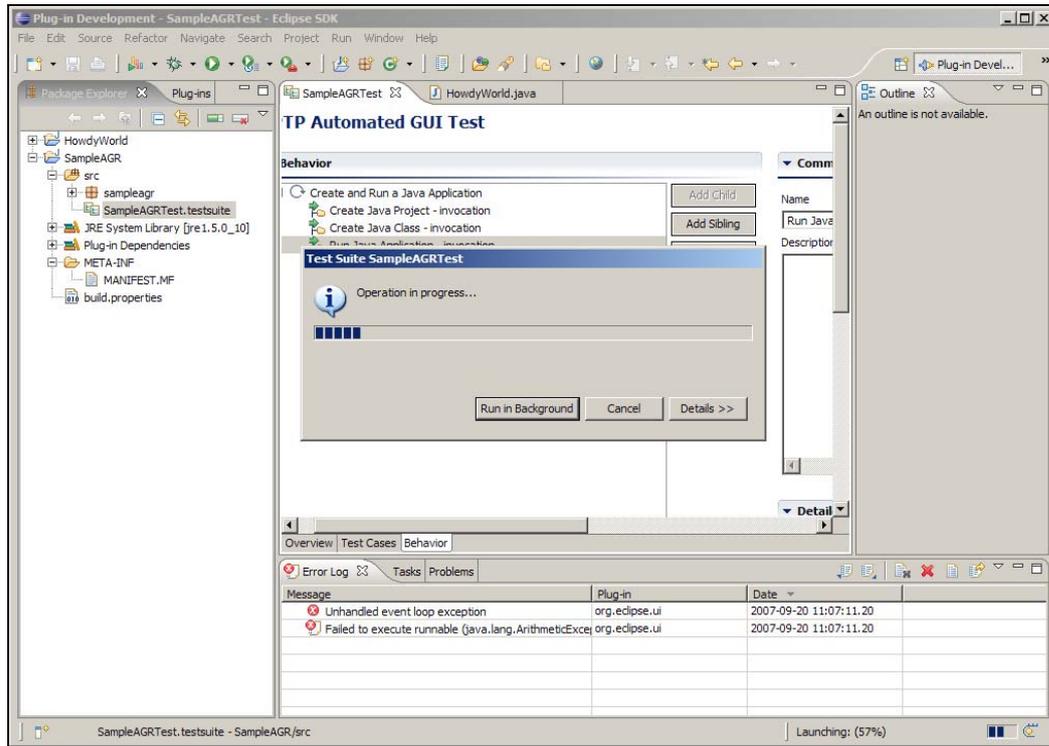
Slide notes:

Text Captions: Select the 3 Test menu item



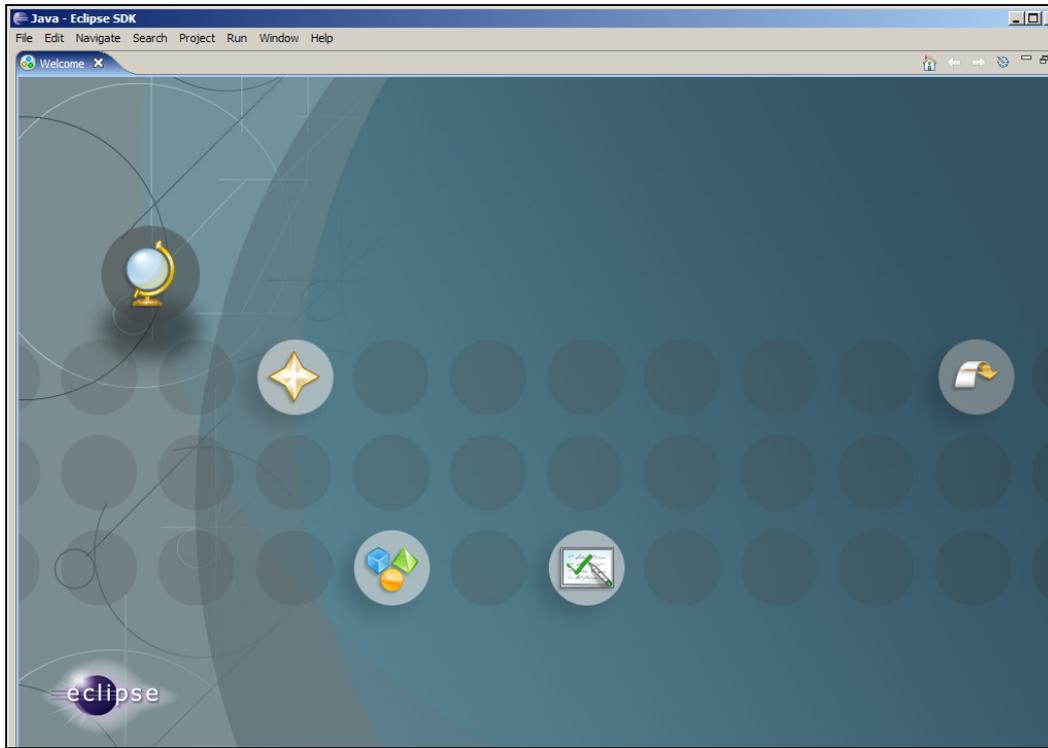
Slide 144

Slide notes:



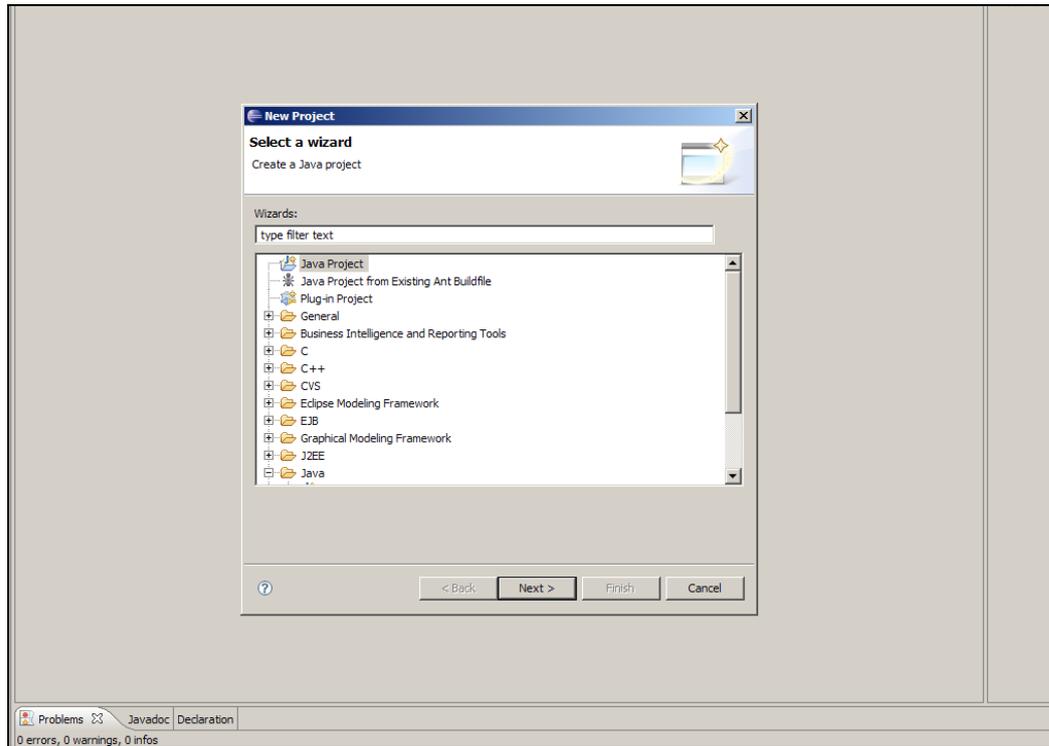
Slide 145

Slide notes: 接下来会打开一个新的 Eclipse 工作台，而且开始运行所有测试用例。



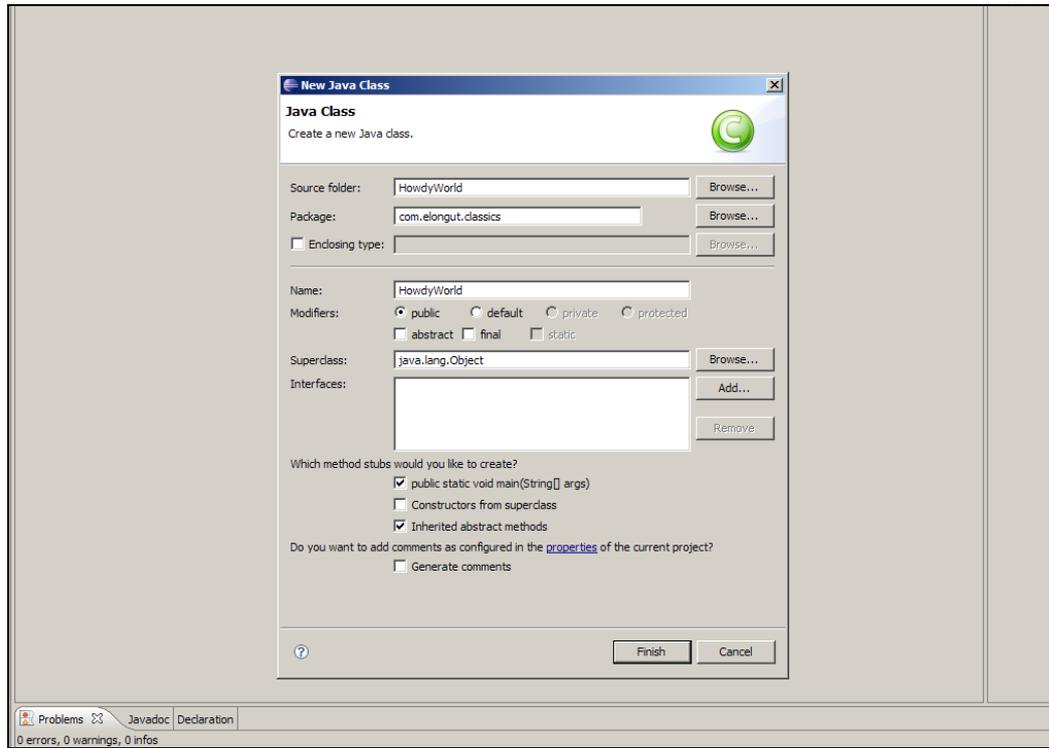
Slide 146

Slide notes:



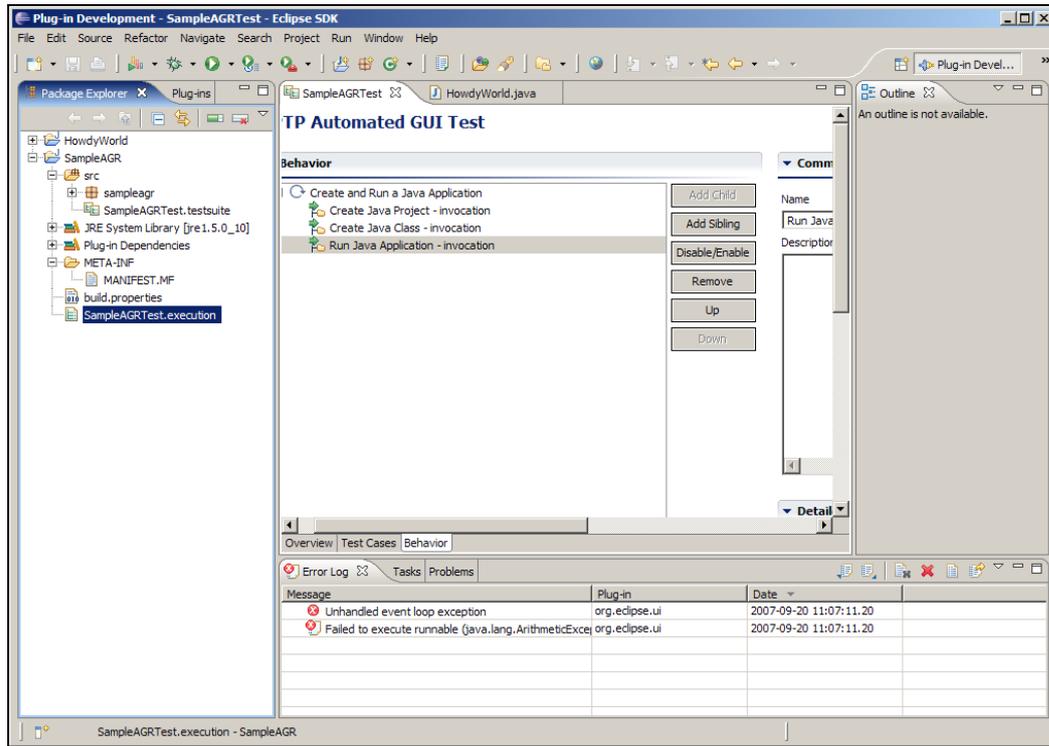
Slide 147

Slide notes:



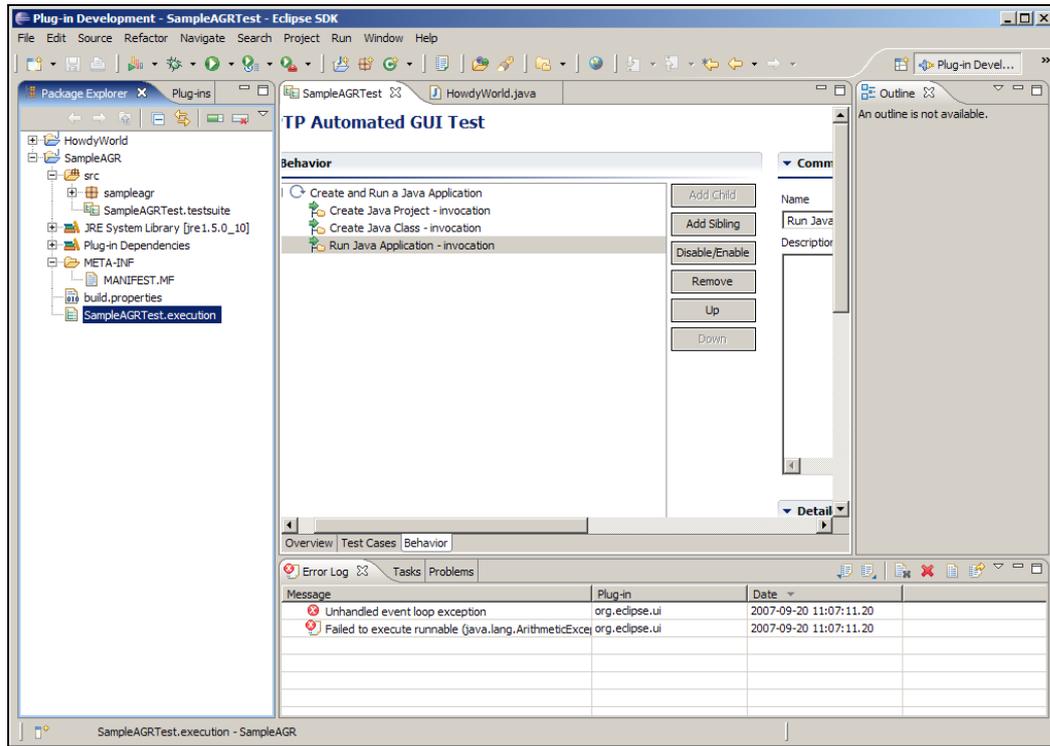
Slide 148

Slide notes:



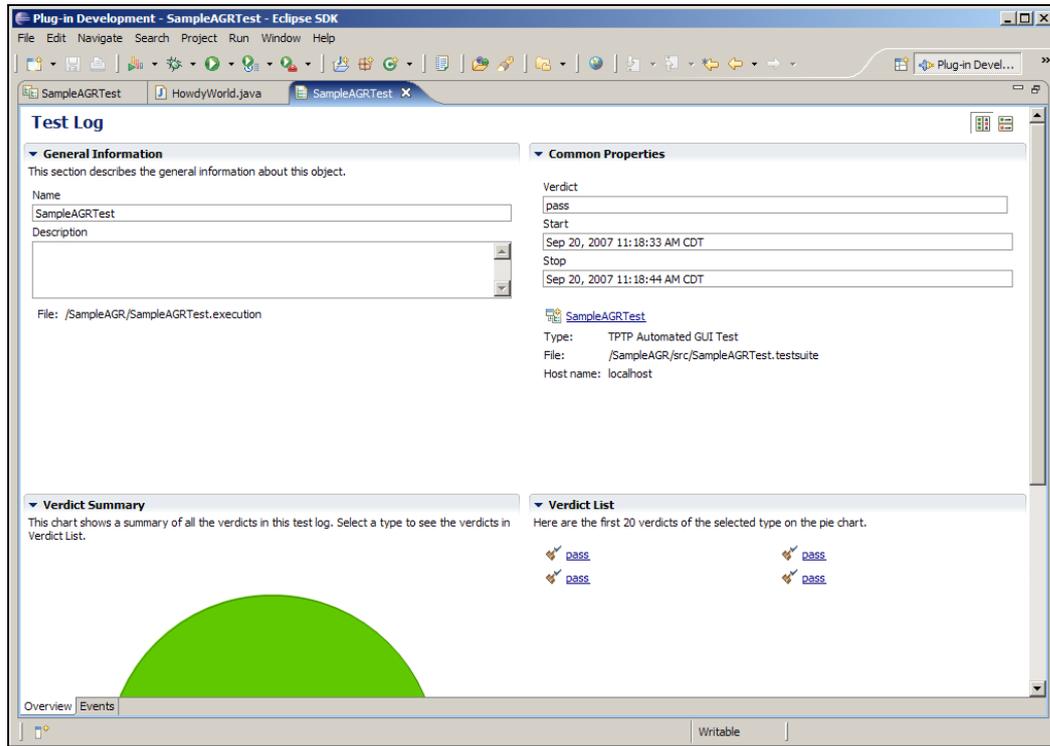
Slide 149

Slide notes: 运行结束后，双击新创建的 SampleAGRTest 执行文件。



Slide 150

Slide notes:



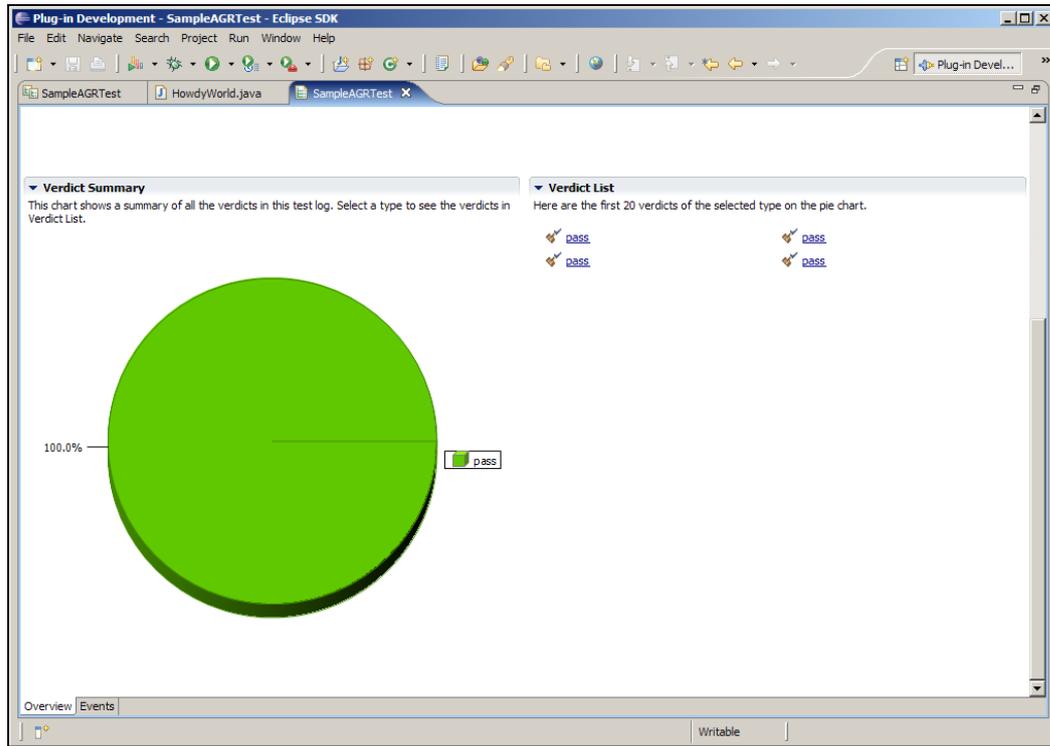
Slide 151

Slide notes: 这时可以在测试集的概要信息中看到运行结果。



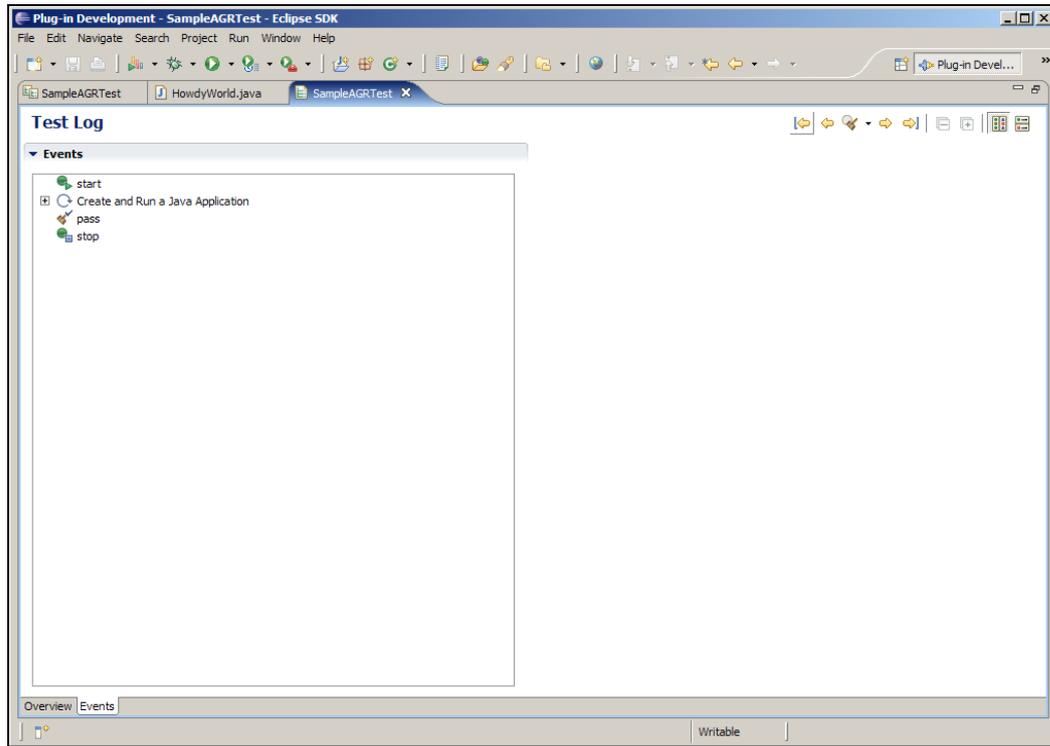
Slide 152

Slide notes:



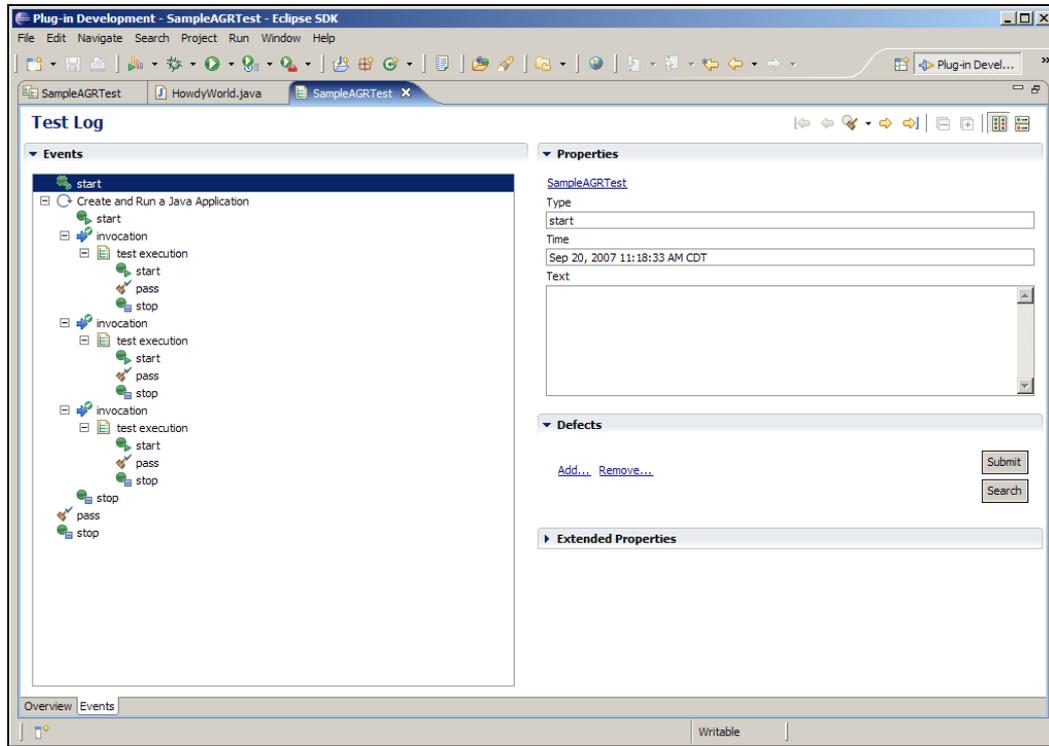
Slide 153

Slide notes: 点击事件可以看到更多信息。



Slide 154

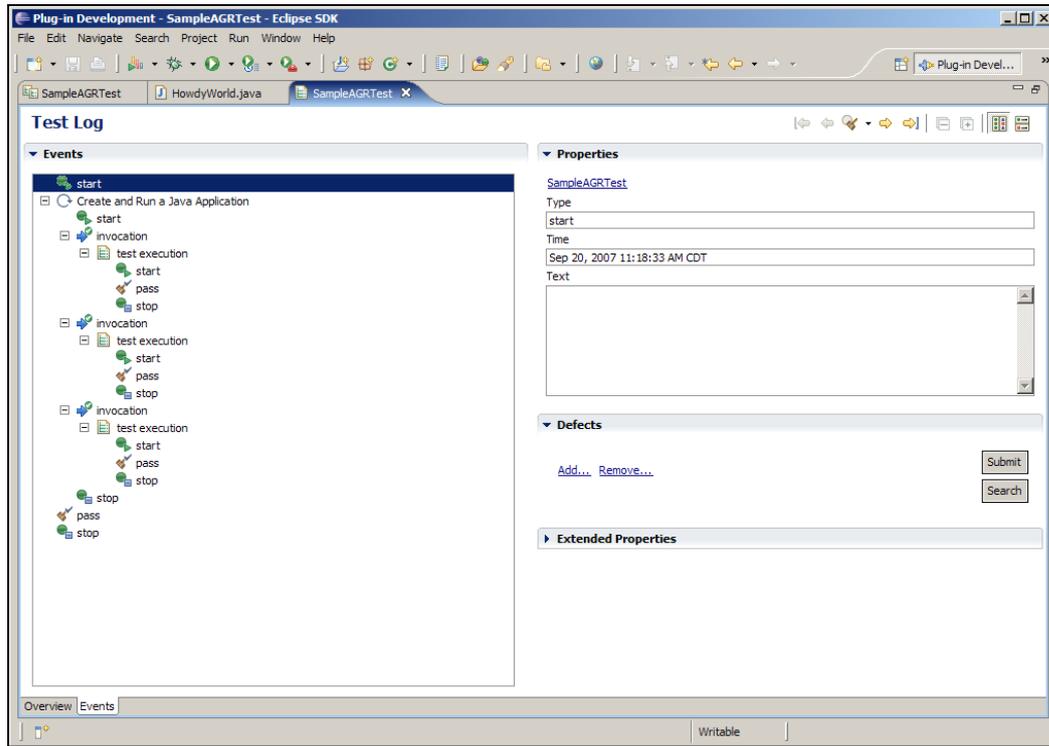
Slide notes: 在这里可以展开每个测试用例，查看更加详细的分析。



Slide 155

Slide notes:

Text Captions: Select the SampleAGRTTest tab



Slide 156

Slide notes: 本次演示到这里就结束了，希望能够帮助您了解 Eclipse 图形界面自动化测试的知识。感谢您的观看。

Text Captions: That's all folks!