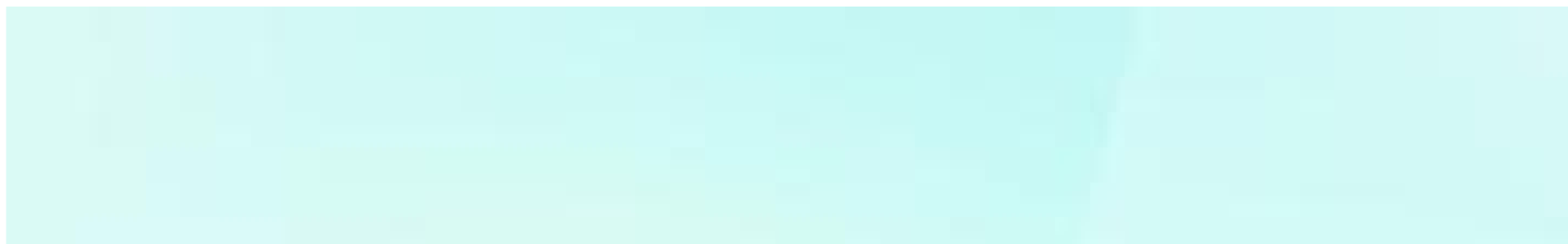


提高代码质量 I

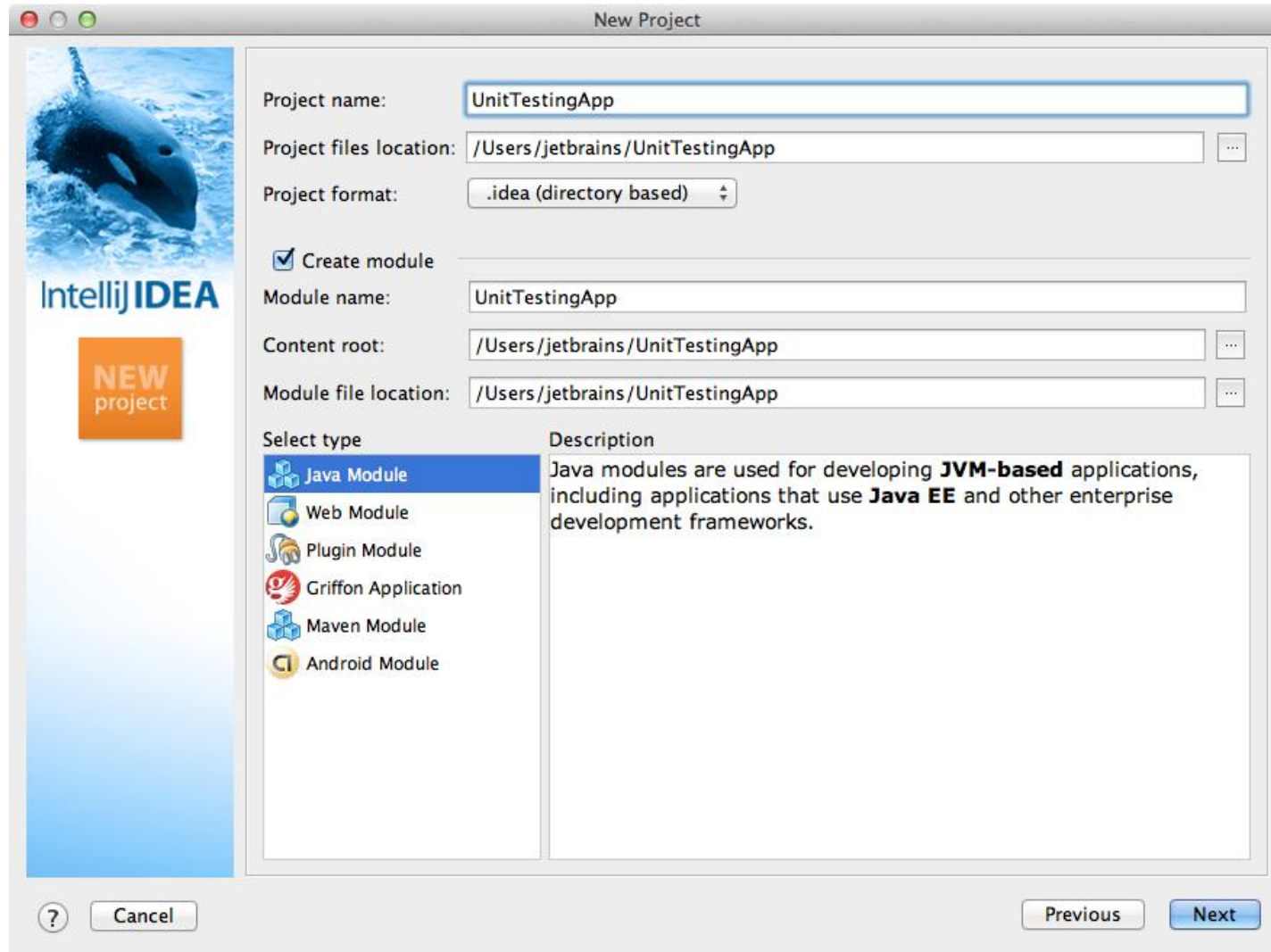
使用IntelliJ Idea进行单元测试

使用IntelliJ Idea进行单元测试

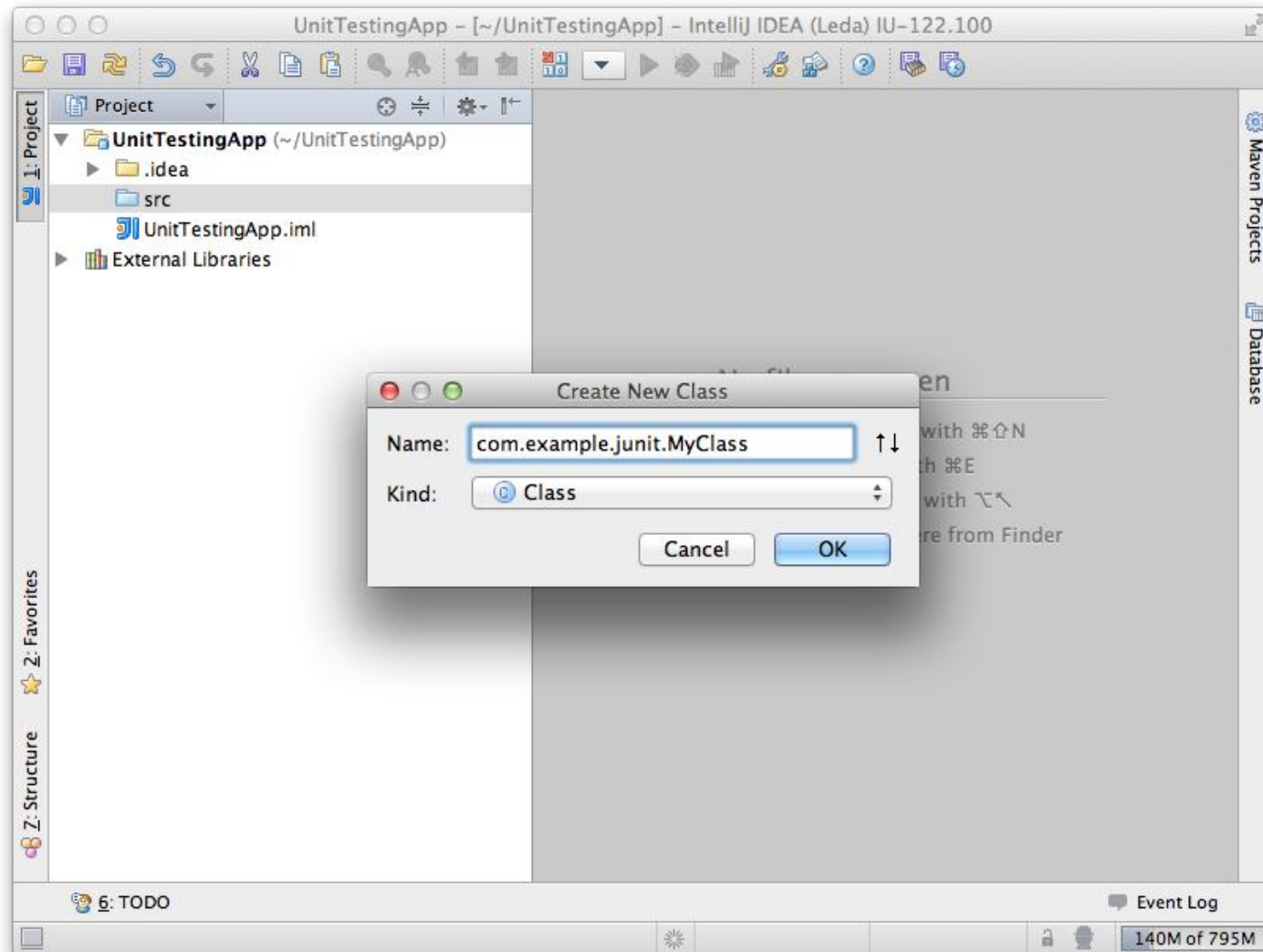
- 本文将介绍如何使用IntelliJ Idea进行单元测试和代码覆盖率分析



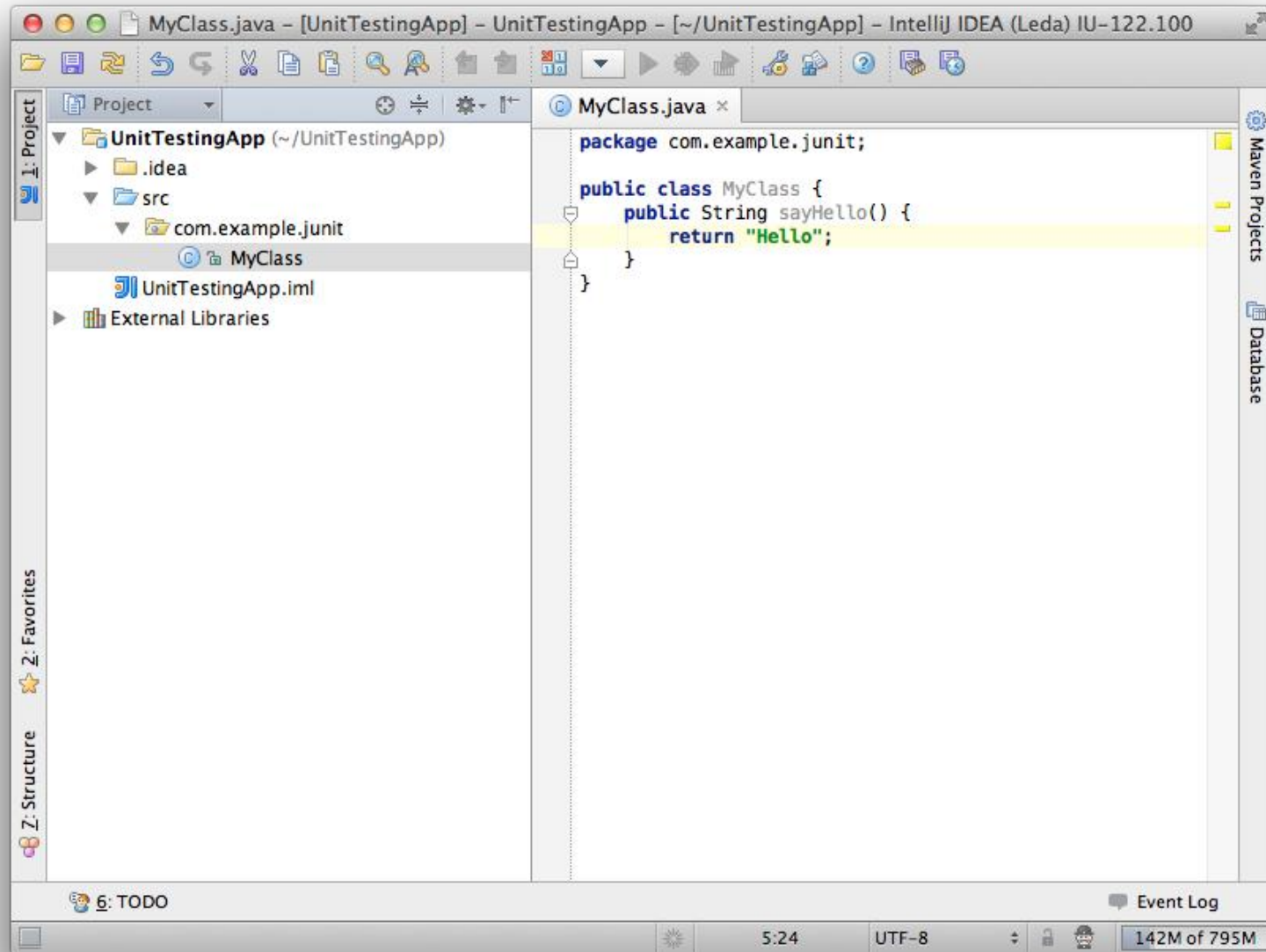
创建一个新的Java项目



创建被测类

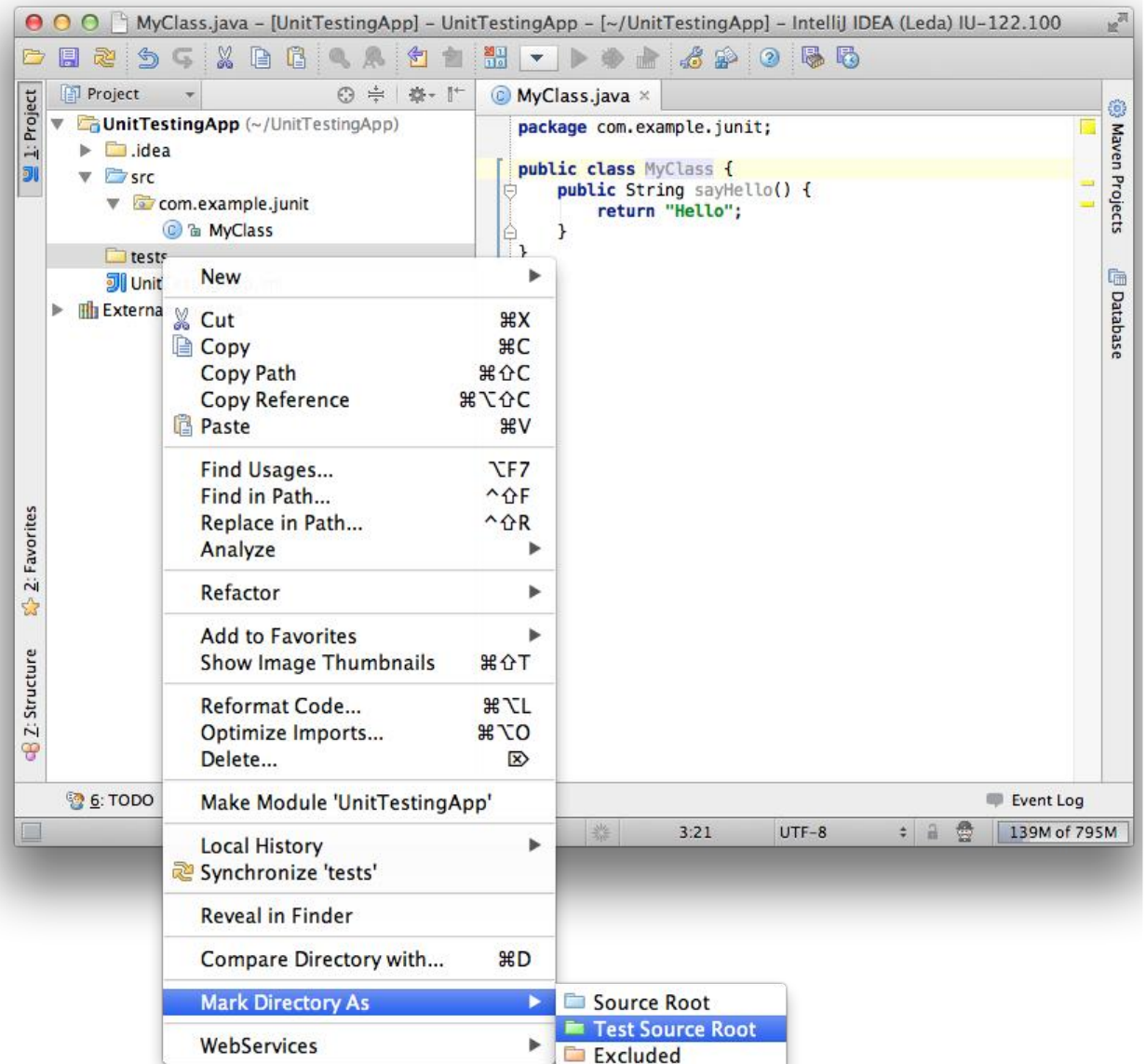


创建被测函数



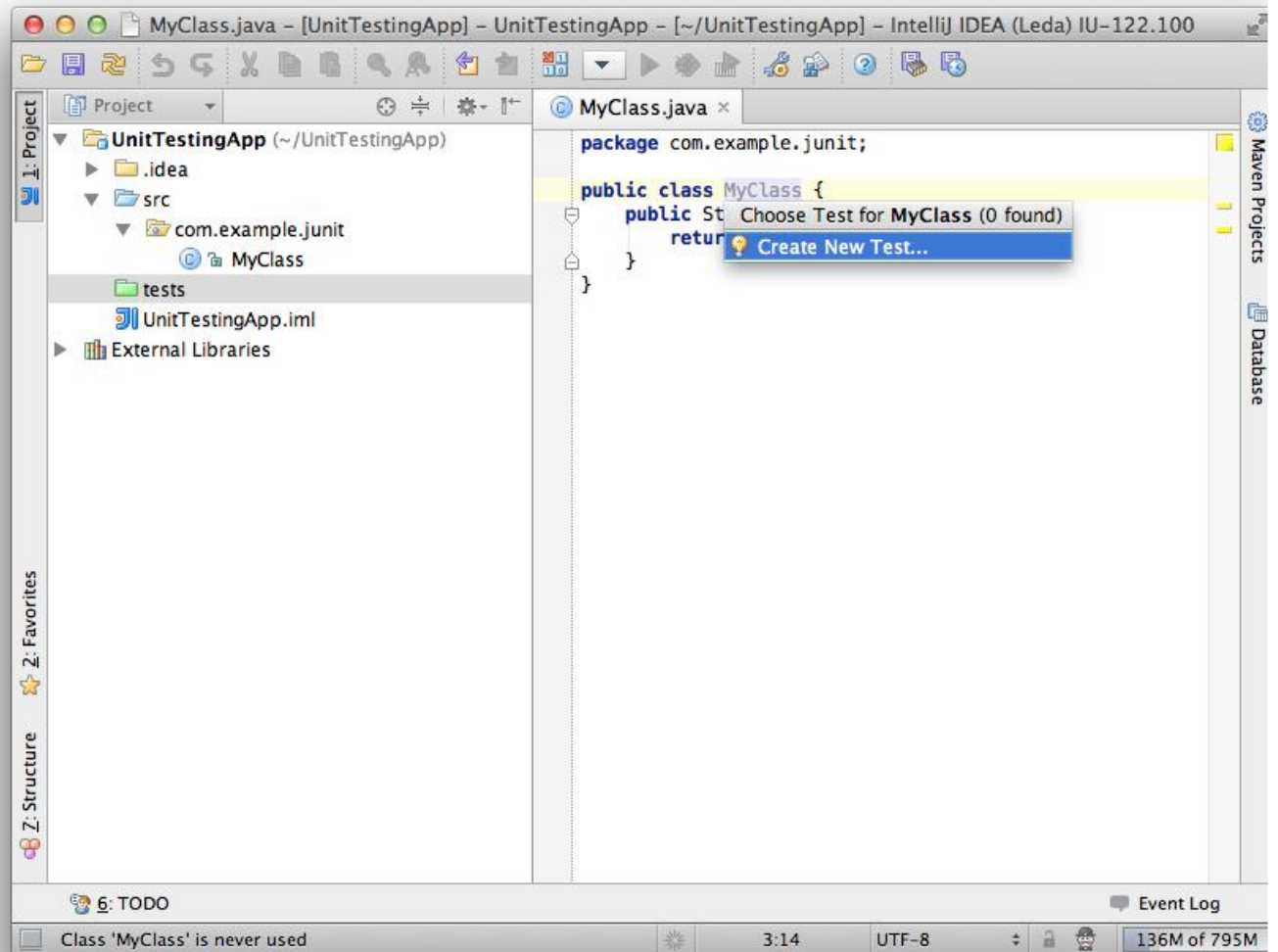
创建测试目录

- 创建一个tests目录
- 设置tests为Test Root



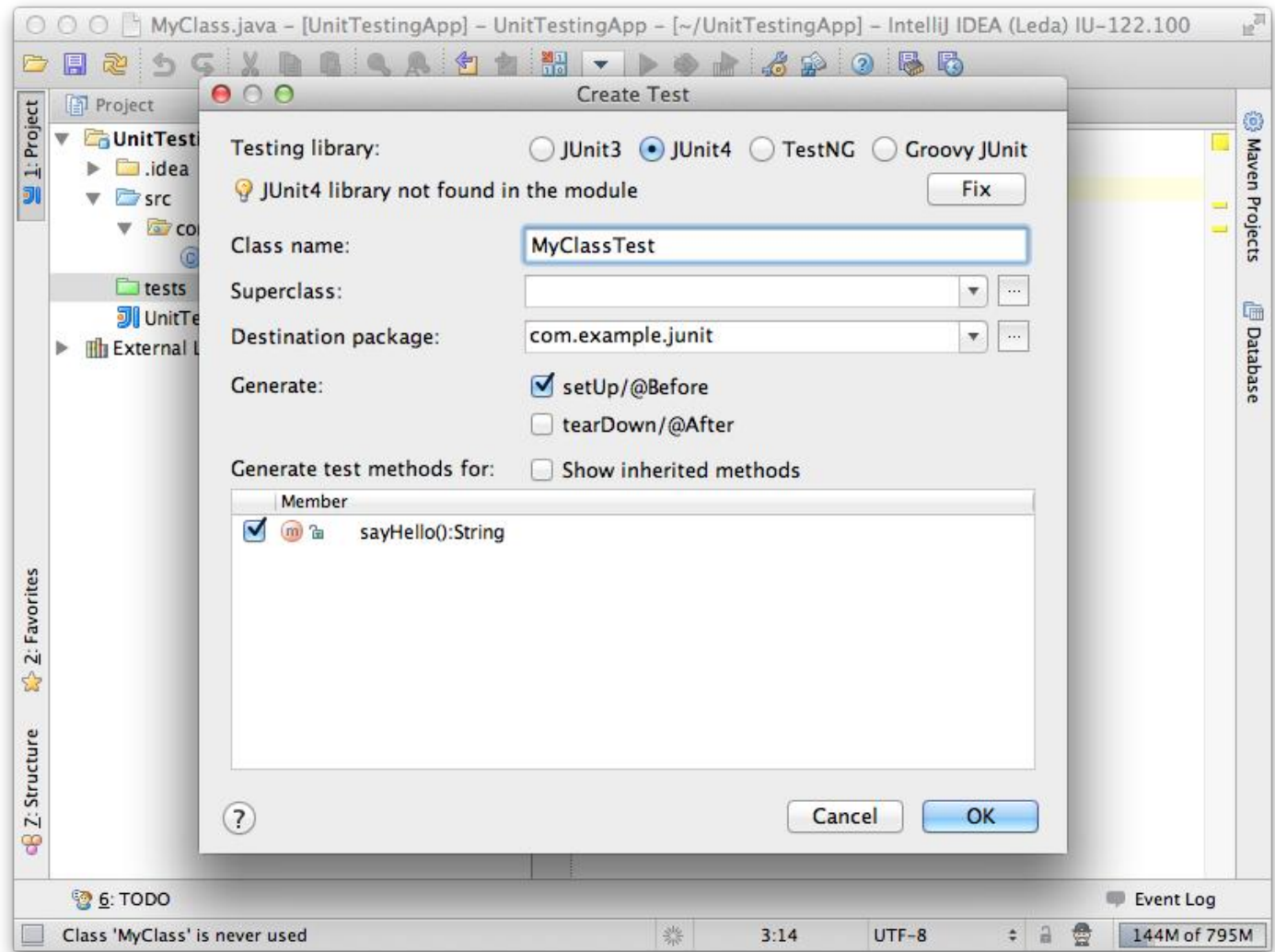
创建测试类

- 快捷键Ctrl-Shift-T



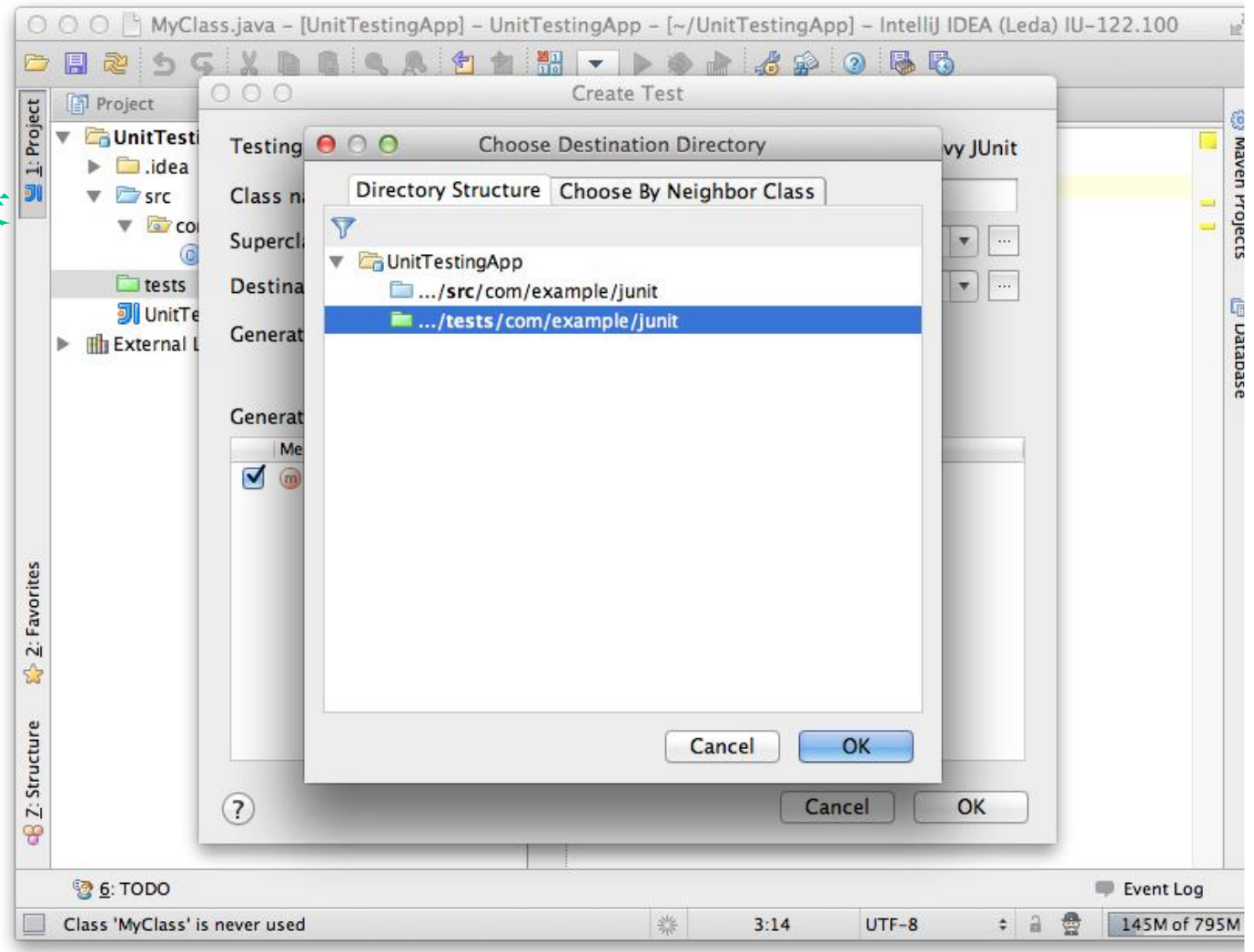
创建测试类

- 选择JUnit4
- 点击"Fix"按钮



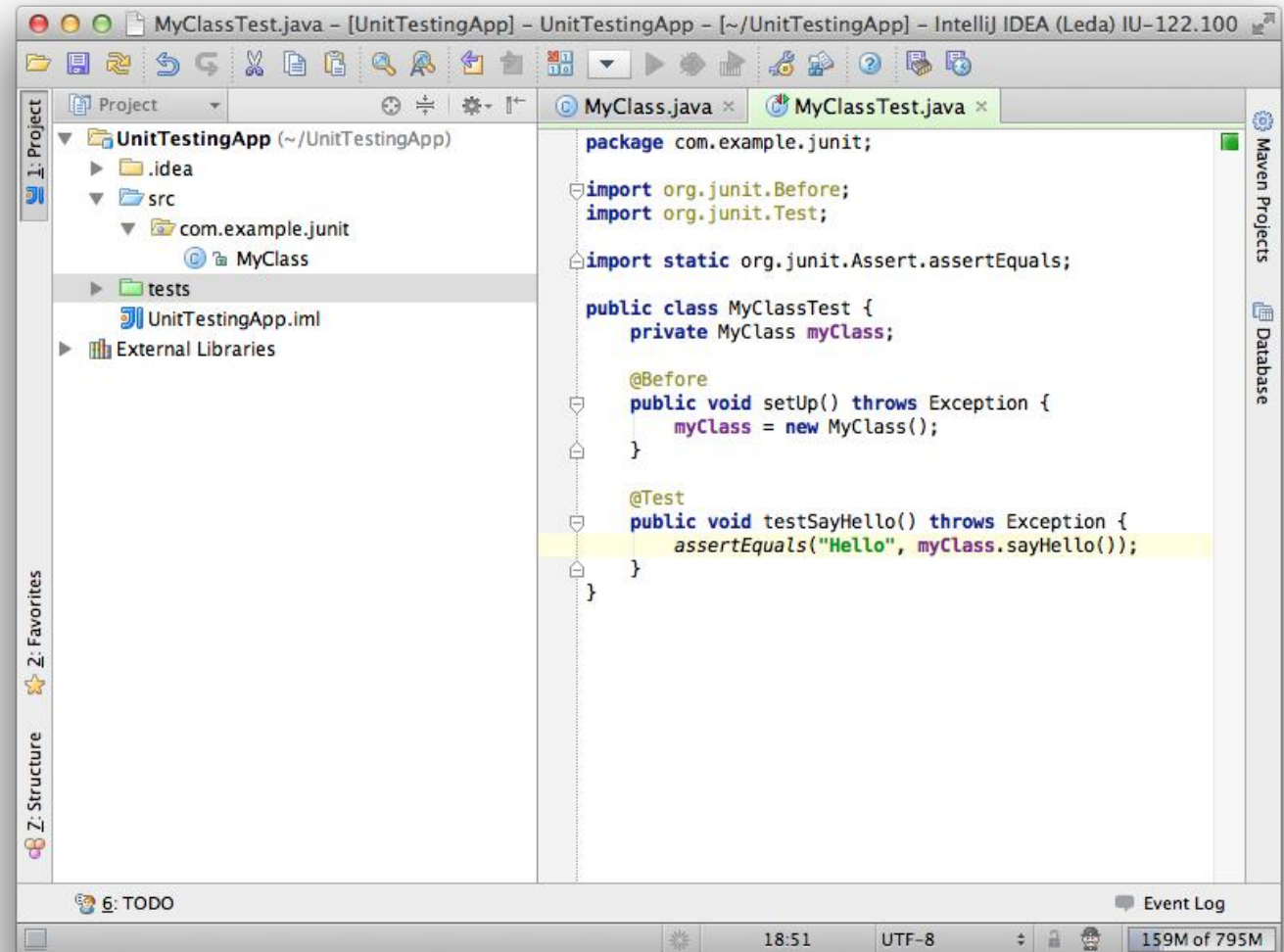
创建测试类

- 选择测试类目录

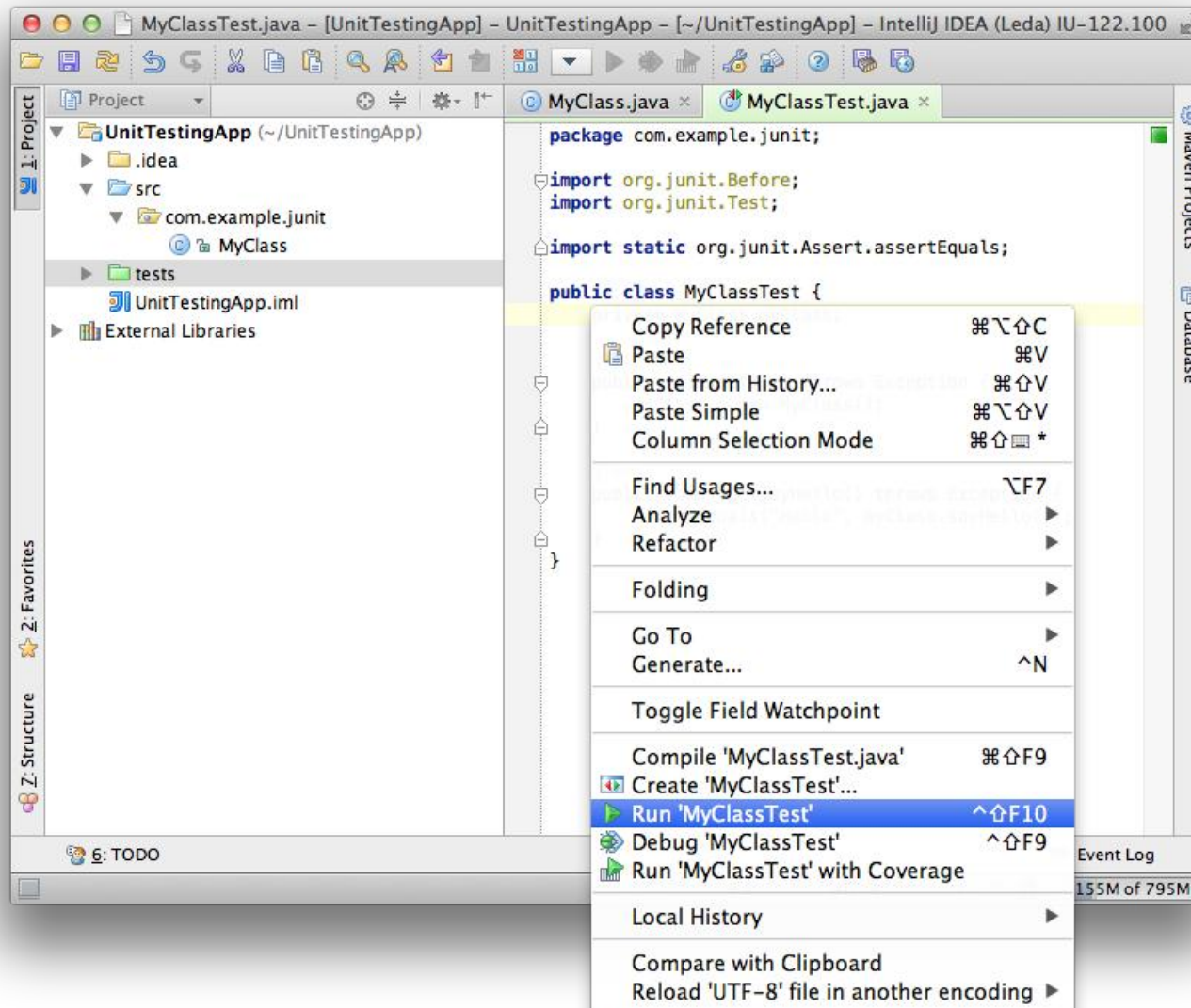


创建测试类

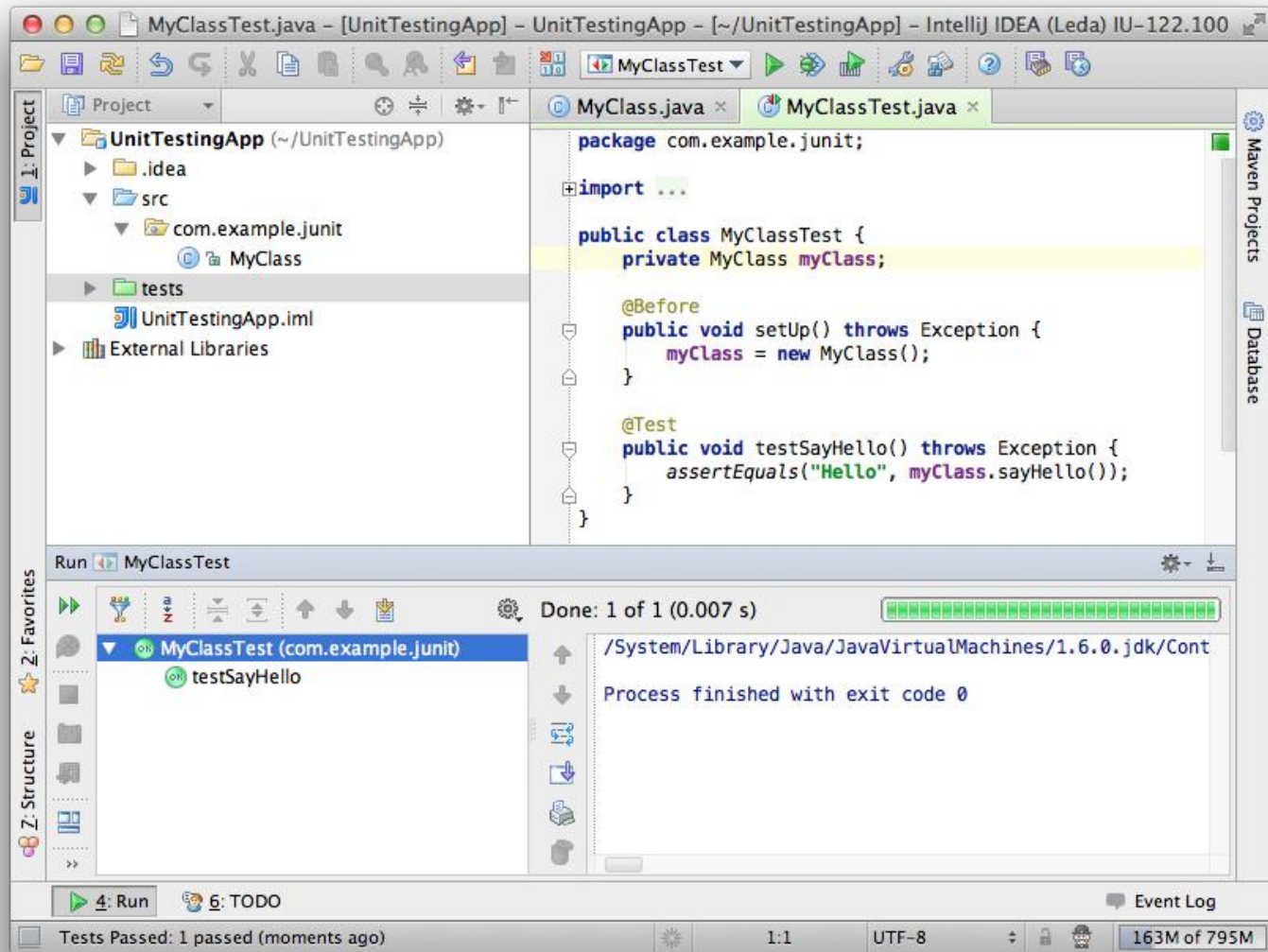
- 添加测试方法



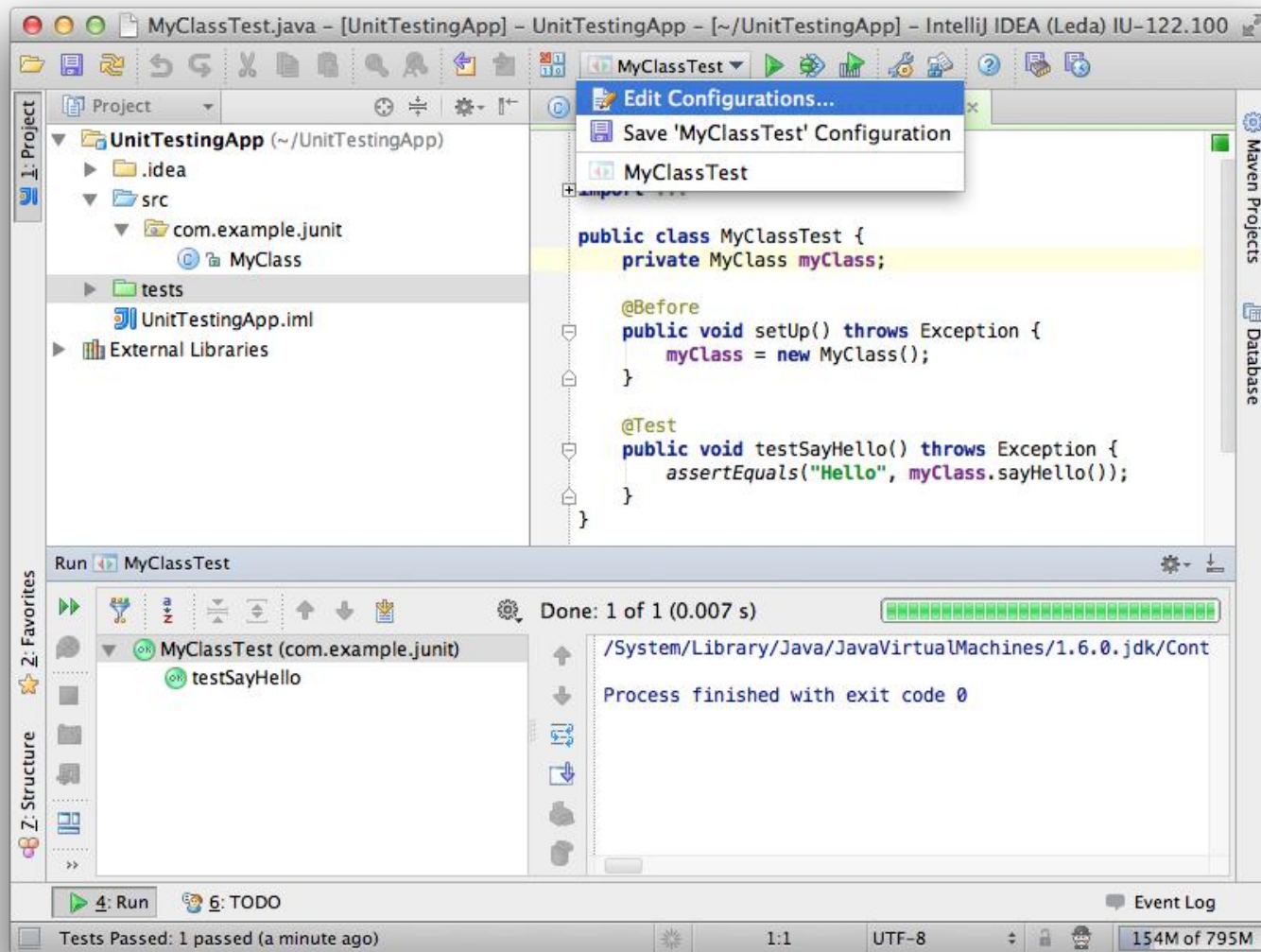
运行测试用例



测试结果

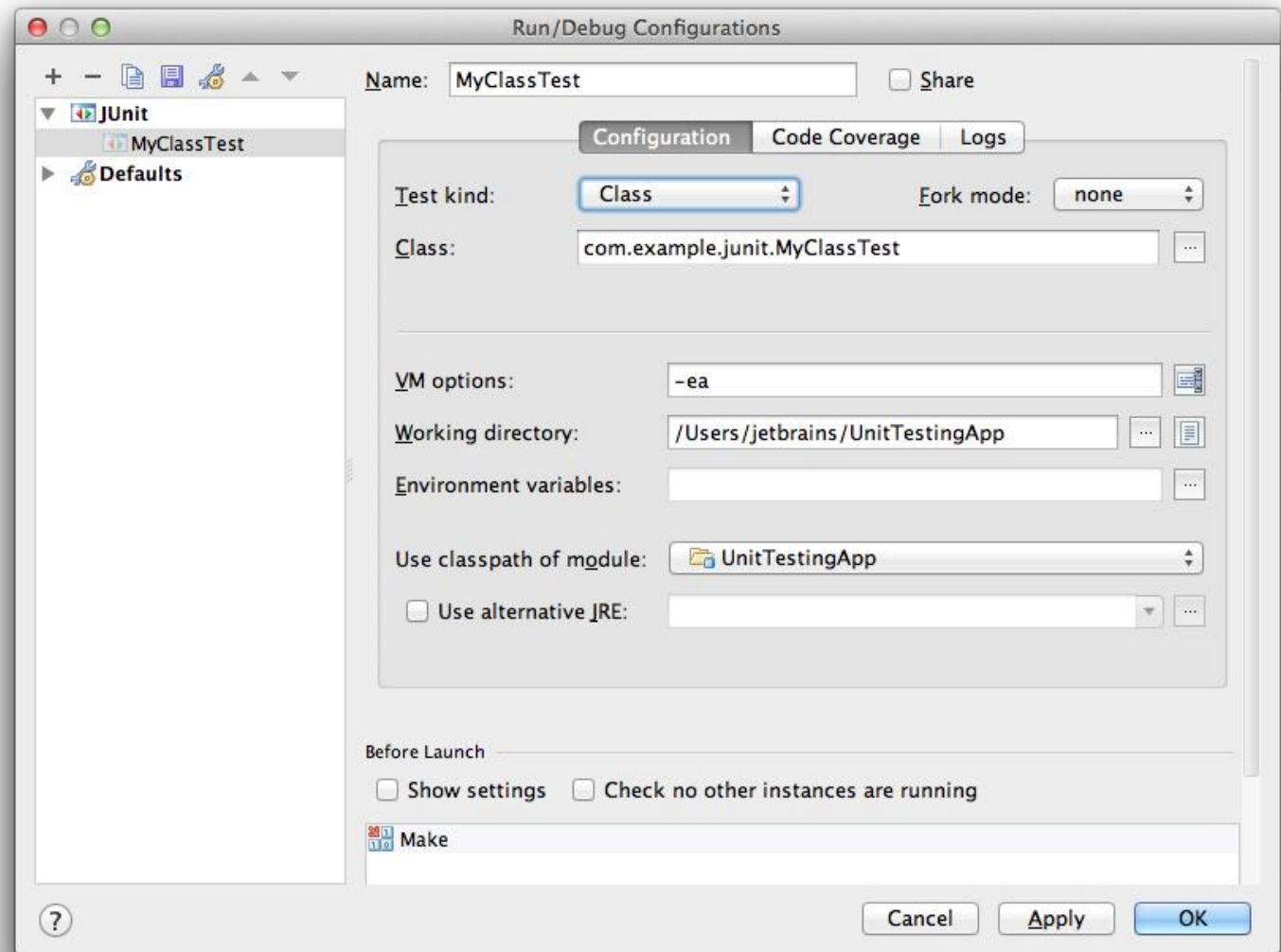


编辑测试选项



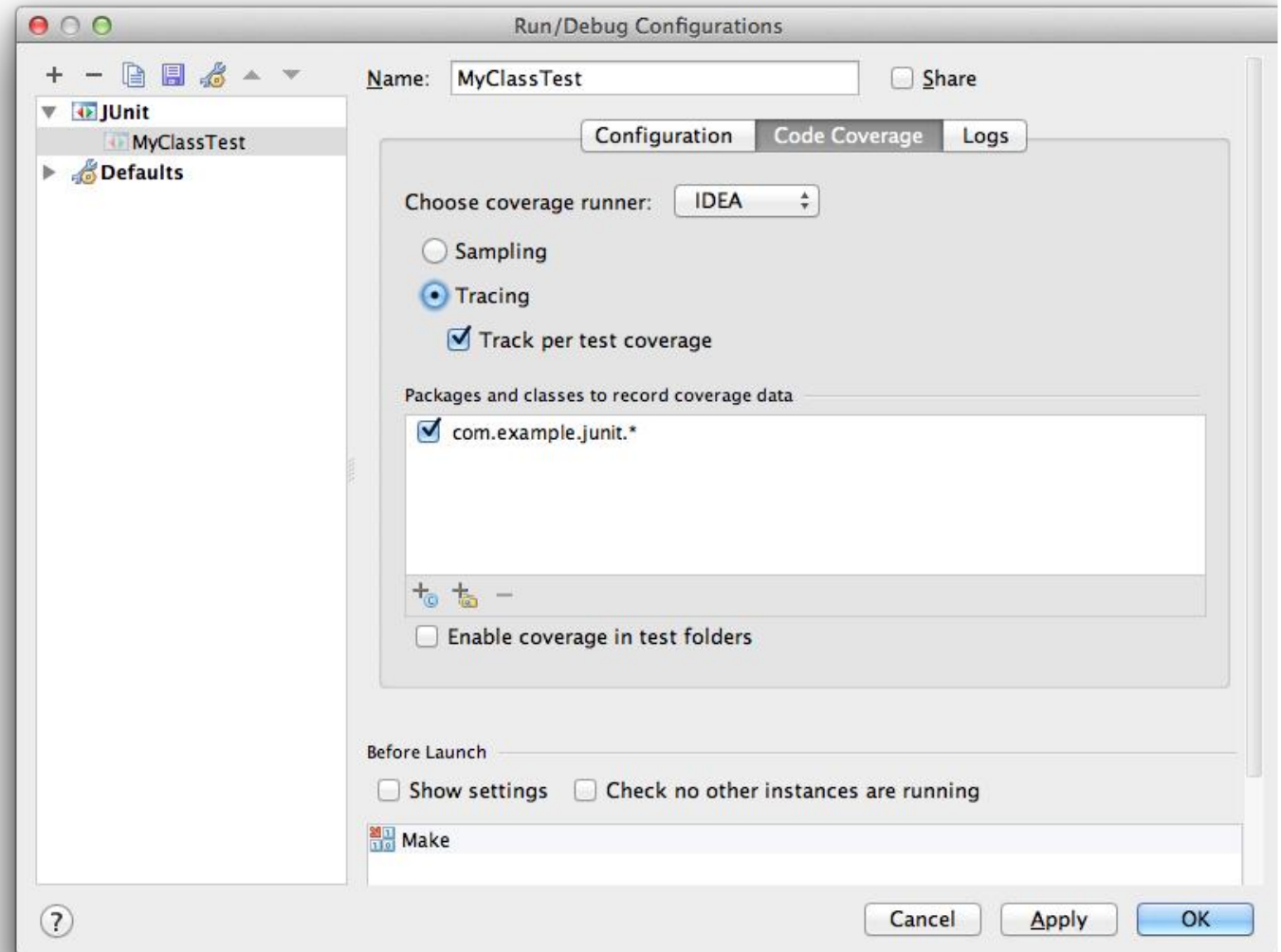
编辑测试选项

- 选择测试范围

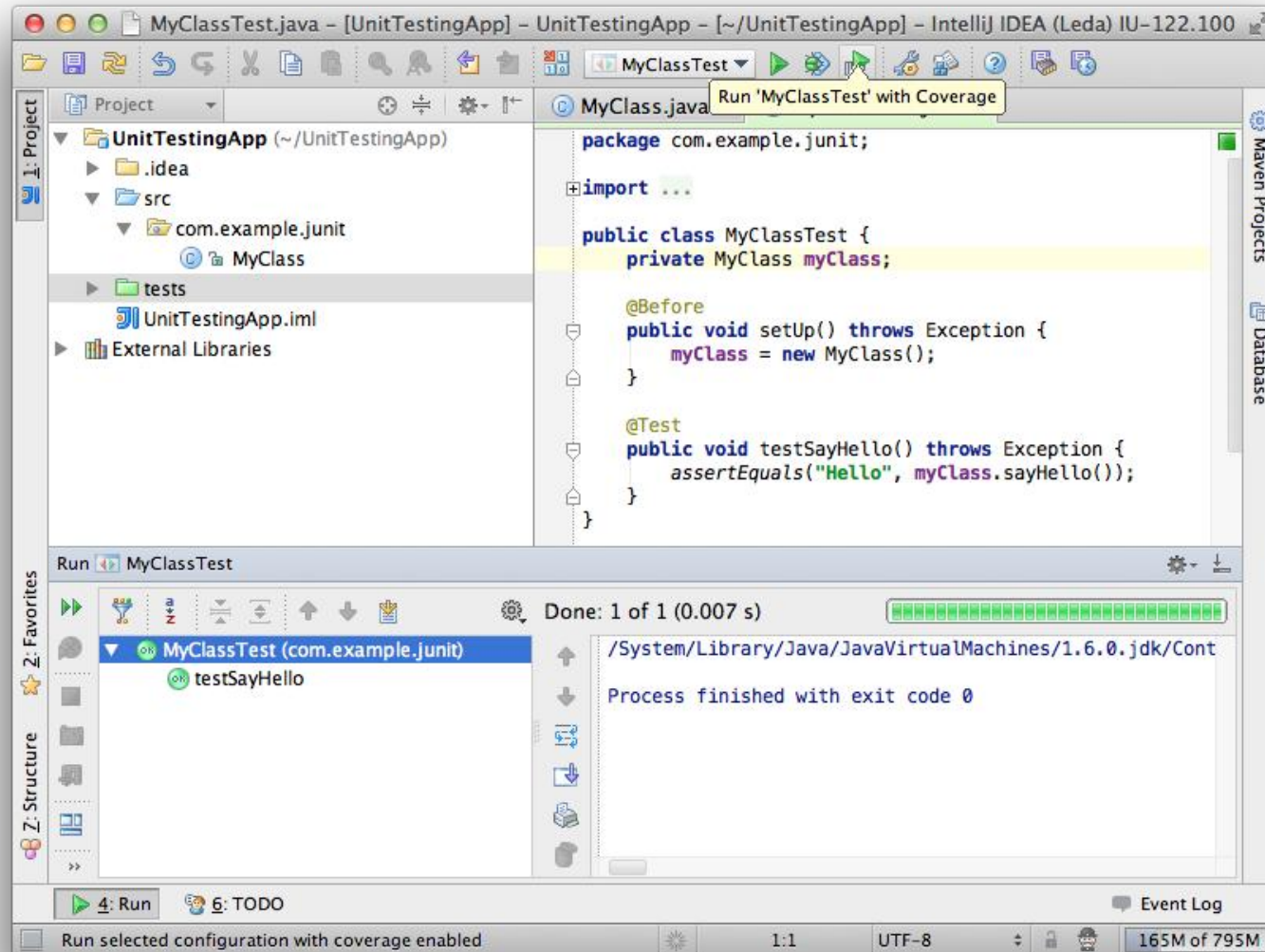


编辑测试选项

- 选择覆盖率工具



运行测试，并产生覆盖率



覆盖率数据显示

The screenshot displays the IntelliJ IDEA IDE interface with the following components:

- Project View (Left):** Shows the project structure for 'UnitTestingApp'. The 'tests' directory is expanded, showing 'com.example.junit' with 'MyClassTest' selected. Coverage data is shown next to the package: 'com.example.junit (100% classes, 100% methods, 100% lines)'.
- Code Editor (Center):** Displays the source code for 'MyClass.java'. The visible code is:

```
com.example.j...  
class MyClass  
{  
    String say  
    return "Hello"
```
- Coverage Summary (Top Right):** Titled 'Coverage Summary for 'all classes in scope...'. It contains a table with the following data:

Element	Class, %	Metho...	Line, %
com.example.j...	100%...	100%...	100%...
- Run View (Bottom):** Shows the execution of 'MyClassTest (com.example.junit)'. The test 'testSayHello' is listed with a green status icon. The output console shows:

```
Done: 1 of 1 (0.009 s)  
/System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Cont  
--- IntelliJ IDEA coverage runner ---  
tracing and tracking per test coverage ...  
include patterns:  
com\\.example\\.junit\\.*  
exclude patterns:  
  
Process finished with exit code 0
```
- Status Bar (Bottom):** Indicates 'Tests Passed: 1 passed (4 minutes ago)', the time '3:14', encoding 'UTF-8', and memory usage '86M of 795M'.

谢谢