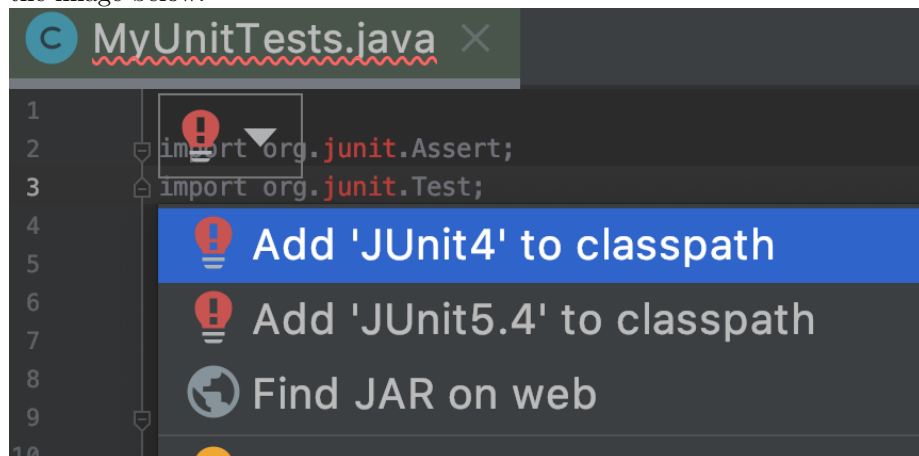# Automated testing in Java
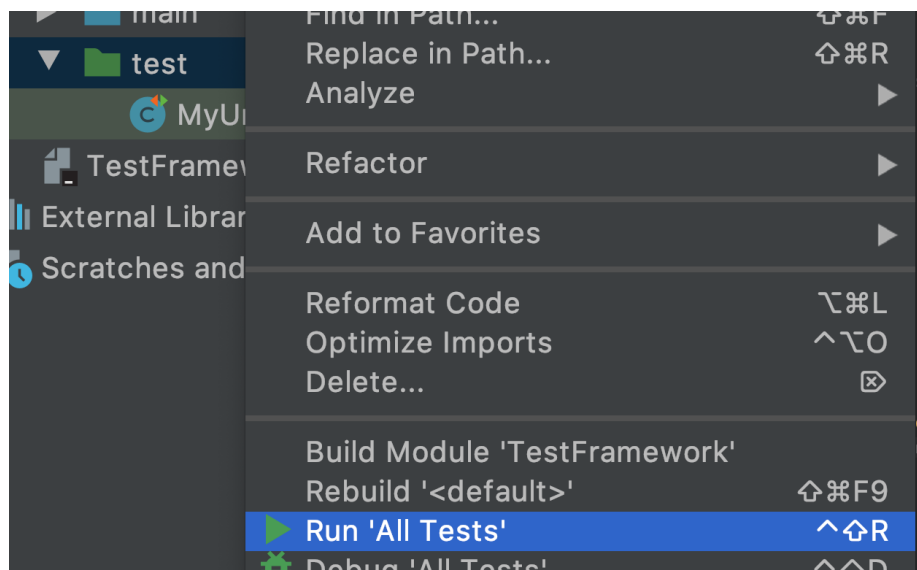
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1 Setup IntelliJ

Follow the steps below to get started with automated testing in IntelliJ.

1. From Canvas, download the compressed folder `TestFramework.zip` and extract it in a safe location on your computer, e.g. on your desktop.

2. In IntelliJ, navigate to *File -¿ New -¿ Project from Existing Sources...* and select the extacted *TestFramework* as the folder to base your project on. Go through the import guide.

3. When the project has been created, click *File -¿ Project Structure...* in the menu. Under *Modules*, make sure to mark the `main` folder as *Sources* and the `test` folder as *Tests*.

4. Open the file `src/test/MyUnitTests.java` and look at the *import* statements right above the class definition.

5. Click on the red *junit* text and choose to add JUnit4 to class path, as in the image below.

6. Press *OK* in the dialog window that appears.

If everything is correctly set up, you should now be able to run all unit tests by right-clicking on the green `test` folder in the project file tree. See the image below.

2 Task

When all tests run, they initially fail. Inspect the test cases to see what they
do, and modify the files in `src/main` so that the test cases pass. Note that you
are <u>not allowed</u> to edit the test cases themselves – all work should be done in
the source code in the `src/main` folder.