

TVVS – Unit Testing

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Preparation:

- Installed JDK (Java Development Kit)
- One IDE that supports JAVA → we will use NetBeans IDE 10.0
- Download project from our GitHub Repository →
<https://github.com/vgrbavac/UnitTestTVVS>
- Link if you need help with installing Java →
<https://www.oracle.com/java/technologies/getstarted-setup-java-programming.html>

Exercise 1:

Follow the instructions given in shown video and try to run test for given class. Instructions are written under for easier understanding.

1. Open IDE which you have previously installed
2. Click on File → New Project... and then select Java Application, click "Next" and enter some name for project and after click "Finish"
3. Add following libraries to project → Hamcrest 1.3, JUnit 4.12, JUnit 5.3.1
4. Copy and paste class from GitHub into your project
5. Right click on Calculator.java then select "Tools → Create/Update Tests" and just click on "OK" button
6. Put "@Ignore" in front of every method except first one ("public void testAddition()")
7. Change variables (x, y, expectedResult) into something that will return true value
8. Run test with a shortcut (Shift + F6) or right click on file and then select "Run file"
9. Now you done first test in JUnit, play with it and try to figure out what else it can do

Exercise 2:

Open the project from GitHub repository and run all test written. Some tests failed? Try to figure out why did tests failed and fix them so tests in the end pass. Tip: you will need to correct some code.

Exercise 3:

Check the method for checking the prime number, is it wrong? Why does it return that the test is passed?