



Tutorial para criar projeto com JUnit Qualidade de Software (QSWL5)

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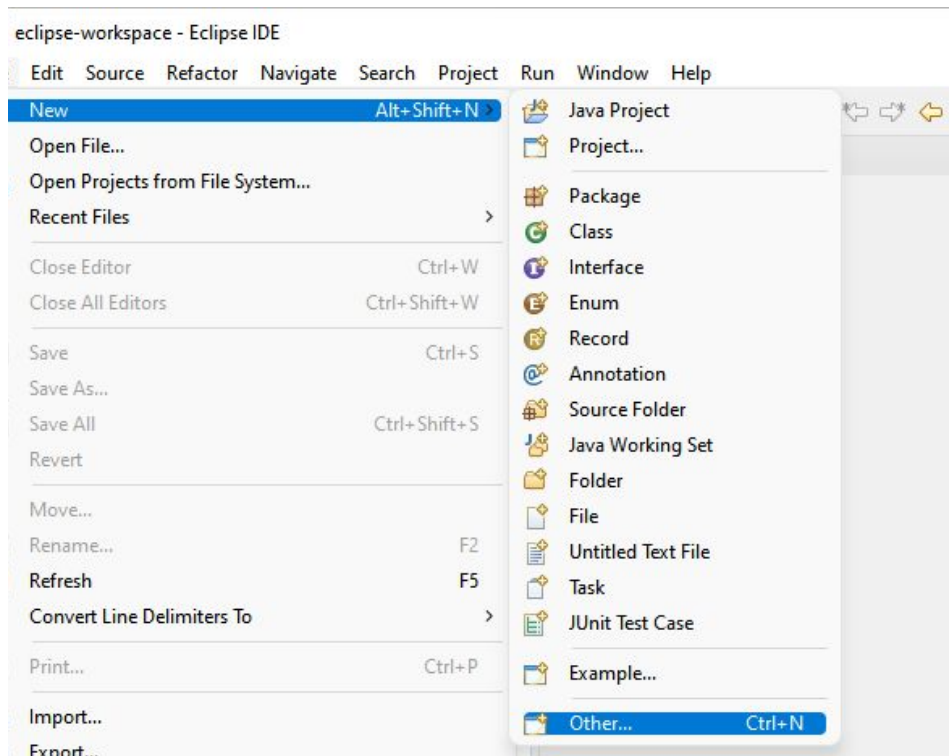
2022



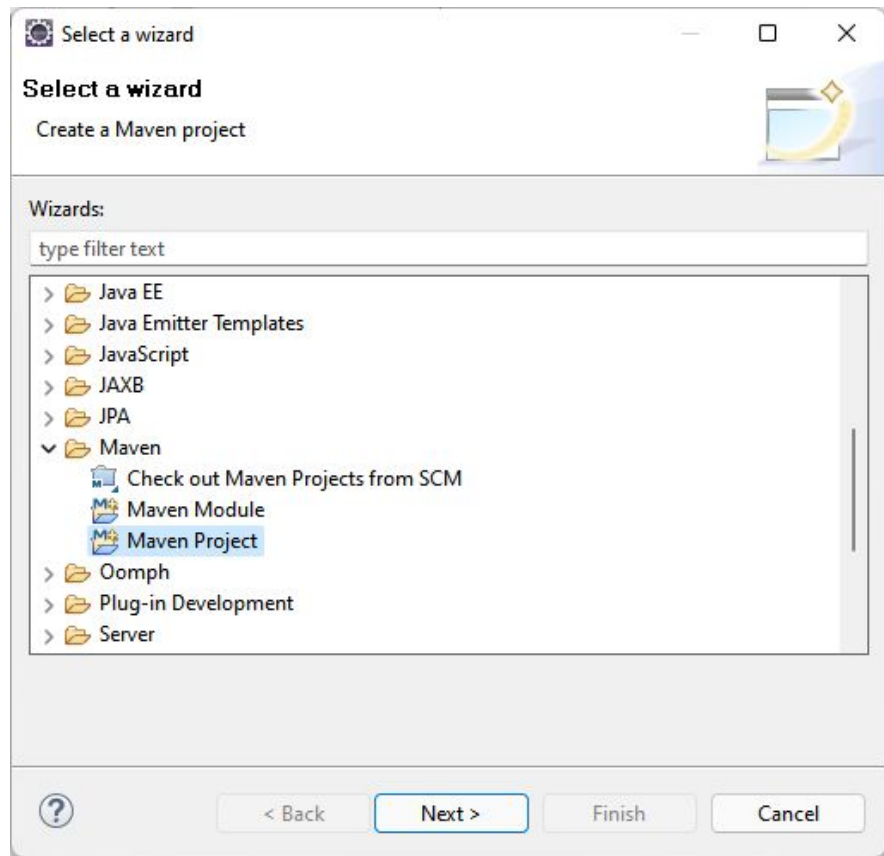
Tutorial de como realizar os testes

1. Baixe o Eclipse IDE em sua versão mais recente. <https://www.eclipse.org/downloads/>
2. Crie um projeto clicando em File > New > Other
3. Selecione Maven Project
4. Selecione 'create a simple project (skip archetype selection)'. Clique em Next.
5. Preencha os dados de group id e artifact id. Clique em Finish.
6. A tela irá aparecer o projeto criado.
7. Clique com o botão direito em 'src/test/java' > New > JUnit Test Case
8. Preencha o campo 'name' e clique em Finish
9. Um arquivo será criado com os test case
10. Para rodar os testes, clique com o botão direito em 'src/test/java' > Run as > JUnit Test
11. Adicione o JAR da aposta clicando no nome do projeto com o botão direito > Build Path > Add external archives..
12. Selecione o 'aposta.jar'

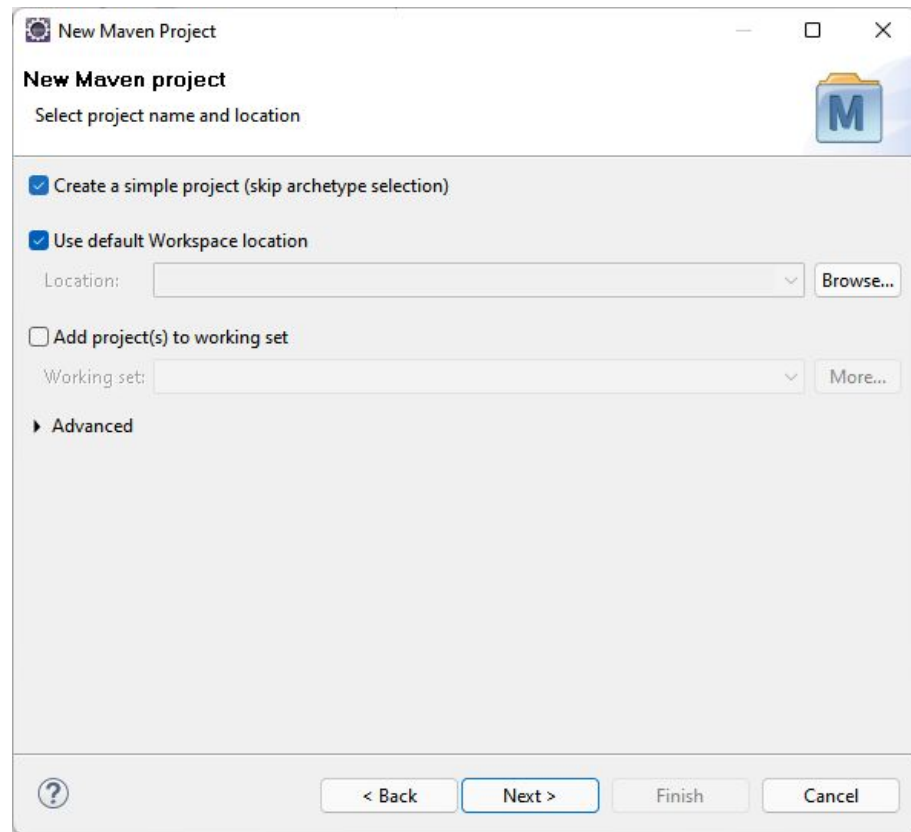
Crie um projeto clicando em File >
New > Other



Selezione Maven Project



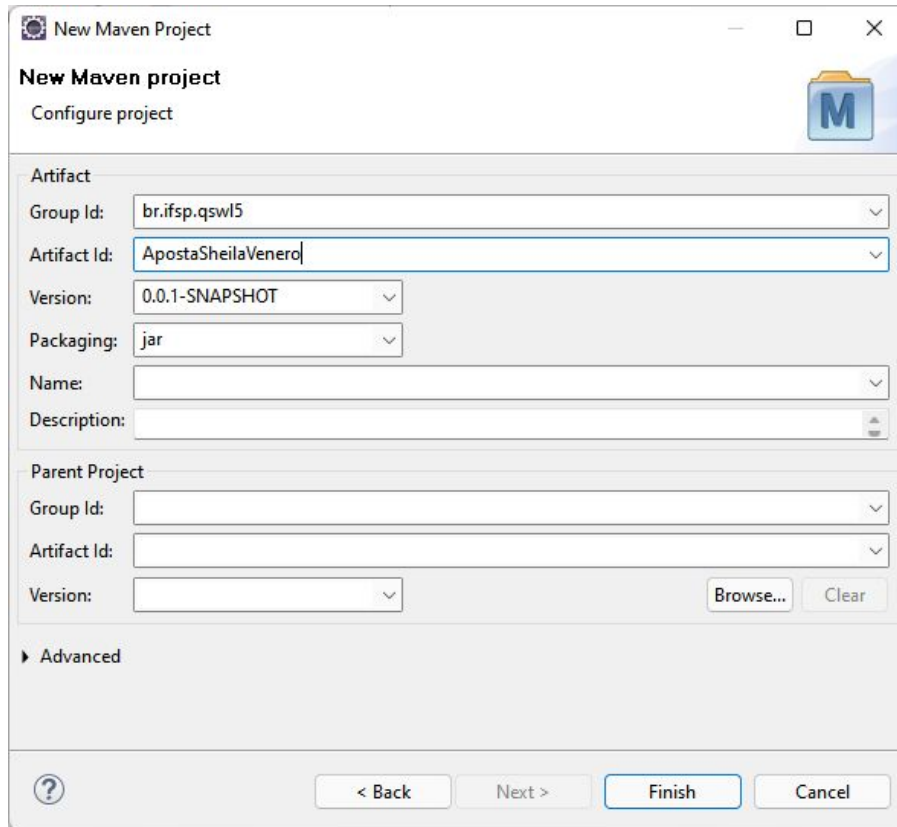
Selecione 'create a simple project (skip archetype selection)'. Clique em Next.



The image shows a 'New Maven Project' dialog box with the following elements:

- Title Bar:** 'New Maven Project' with standard window controls (minimize, maximize, close).
- Section Header:** 'New Maven project' with a subtitle 'Select project name and location'.
- Icon:** A blue folder icon with a white 'M' on the right side.
- Options:**
 - ☒ Create a simple project (skip archetype selection)
 - ☒ Use default Workspace location
- Location:** A text field with a dropdown arrow and a 'Browse...' button.
- Working Set:** An unchecked checkbox 'Add project(s) to working set', a text field with a dropdown arrow, and a 'More...' button.
- Advanced:** A collapsed section indicated by a right-pointing triangle and the word 'Advanced'.
- Footer:** A row of buttons: a help button (question mark icon), '< Back', 'Next >' (highlighted with a blue border), 'Finish', and 'Cancel'.

Preencha os dados de group id e artifact id. Clique em Finish.

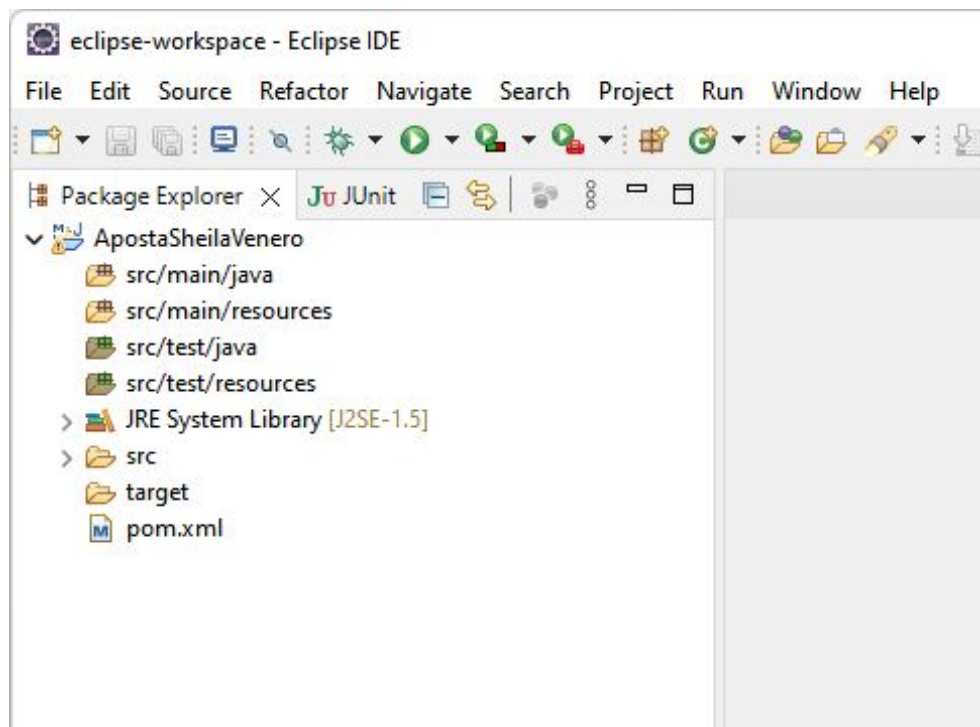


The image shows a 'New Maven Project' dialog box with the following fields and options:

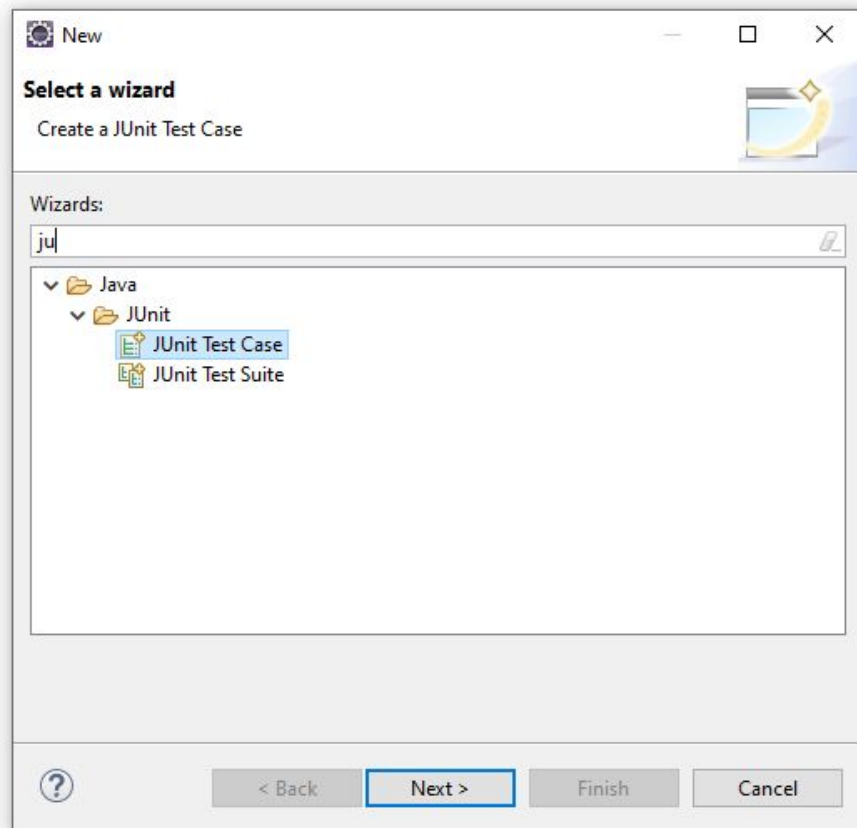
- Artifact**
 - Group Id:
 - Artifact Id:
 - Version:
 - Packaging:
 - Name:
 - Description:
- Parent Project**
 - Group Id:
 - Artifact Id:
 - Version:
 -
- Advanced** (collapsed)

At the bottom, there are four buttons: (with a question mark icon), , , and (highlighted with a blue border). A button is also present.

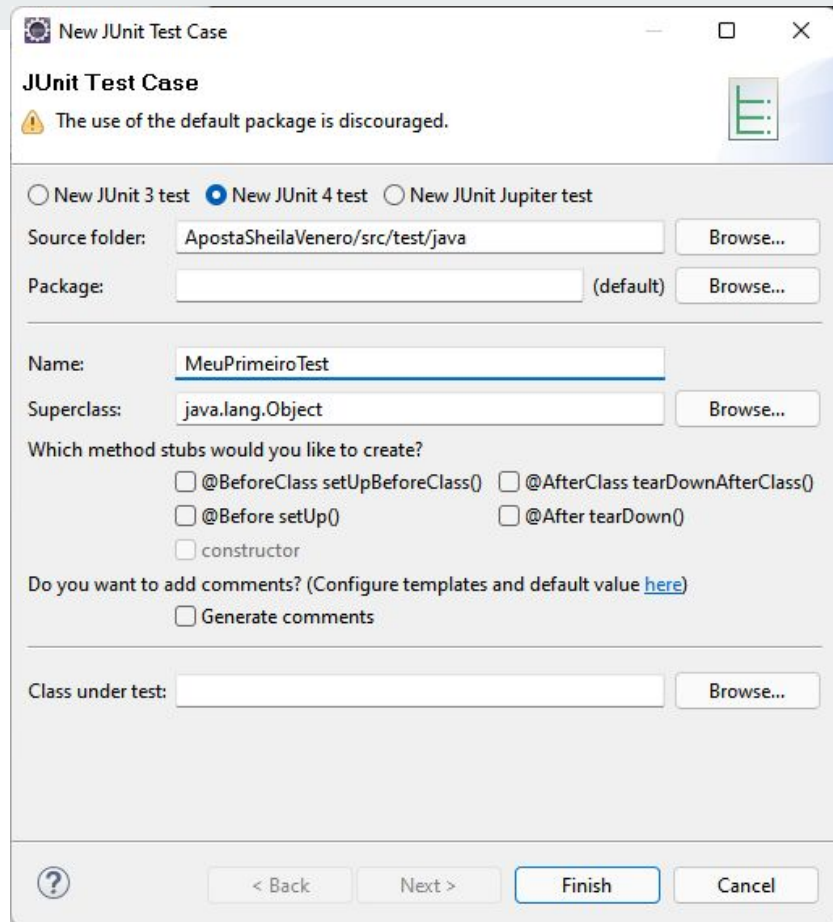
A tela irá aparecer o projeto criado.



Clique com o botão direito em
'src/test/java' > New > JUnit Test Case




Preencha o campo 'name' e clique em Finish

The image shows a 'New JUnit Test Case' dialog box. At the top, there's a title bar with a gear icon and the text 'New JUnit Test Case'. Below the title bar, the text 'JUnit Test Case' is displayed. A warning icon and message state: 'The use of the default package is discouraged.' On the right side, there's a small icon of a document with a list. The main area contains three radio buttons: 'New JUnit 3 test', 'New JUnit 4 test' (which is selected), and 'New JUnit Jupiter test'. Below these are two text fields: 'Source folder:' with the value 'ApostaSheilaVenero/src/test/java' and a 'Browse...' button; and 'Package:' with '(default)' and a 'Browse...' button. The 'Name:' field contains 'MeuPrimeiroTest'. The 'Superclass:' field contains 'java.lang.Object' and has a 'Browse...' button. A section titled 'Which method stubs would you like to create?' has four checkboxes: '@BeforeClass setUpBeforeClass()', '@AfterClass tearDownAfterClass()', '@Before setUp()', and '@After tearDown()' (all unchecked), and a 'constructor' checkbox (checked). Below this is a question 'Do you want to add comments? (Configure templates and default value [here](#))' with a 'Generate comments' checkbox (unchecked). At the bottom, there's a 'Class under test:' field with a 'Browse...' button. The footer contains a help icon (?), '< Back' button, 'Next >' button, 'Finish' button (highlighted with a blue border), and 'Cancel' button.

New JUnit Test Case

JUnit Test Case

 The use of the default package is discouraged.

☐ New JUnit 3 test ☒ New JUnit 4 test ☐ New JUnit Jupiter test

Source folder:

Package:

Name:

Superclass:

Which method stubs would you like to create?

☐ @BeforeClass setUpBeforeClass() ☐ @AfterClass tearDownAfterClass()


☐ @Before setUp() ☐ @After tearDown()

☒ constructor

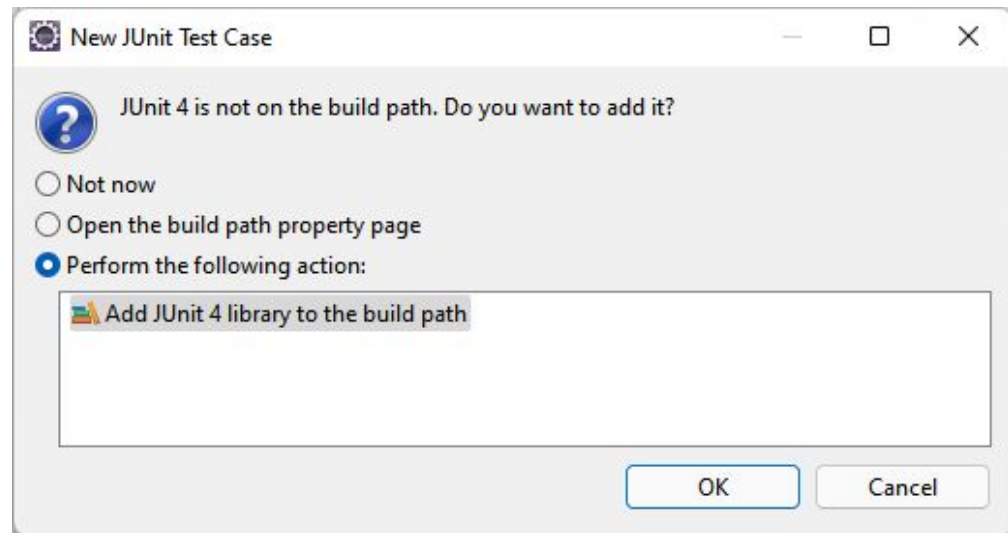
Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

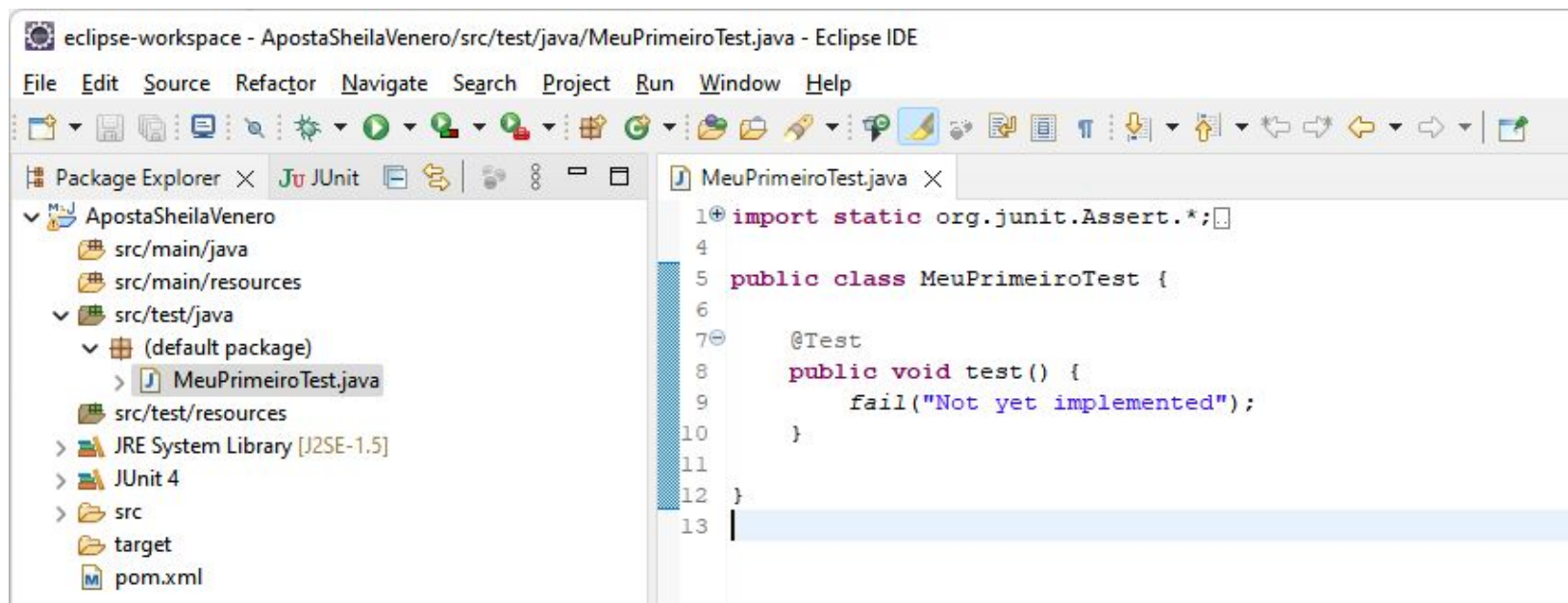
Class under test:



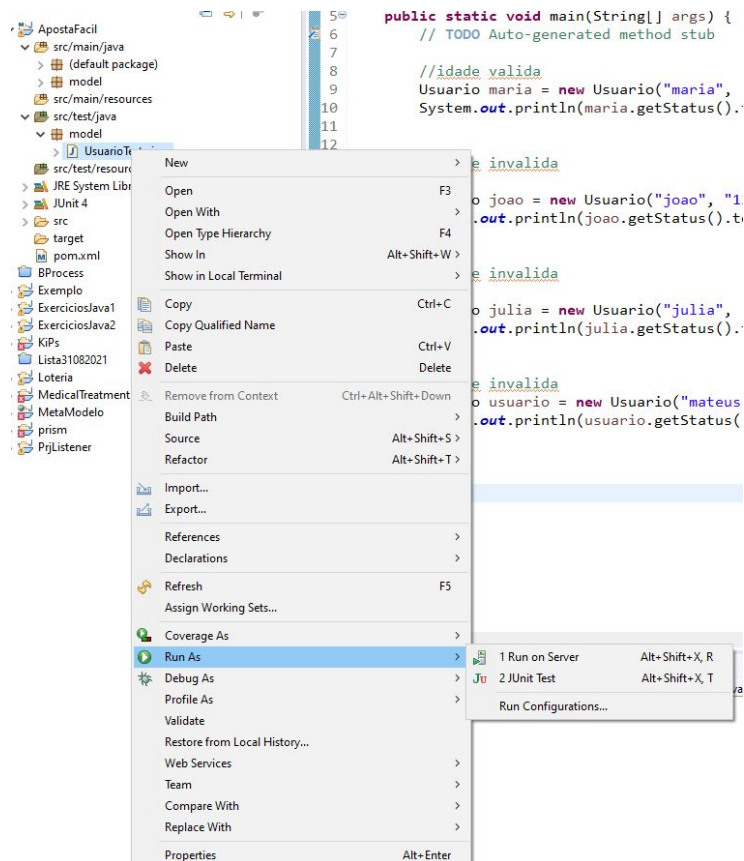
Talvez você tenha que adicionar o JUnit. É só clicar em 'ok'.



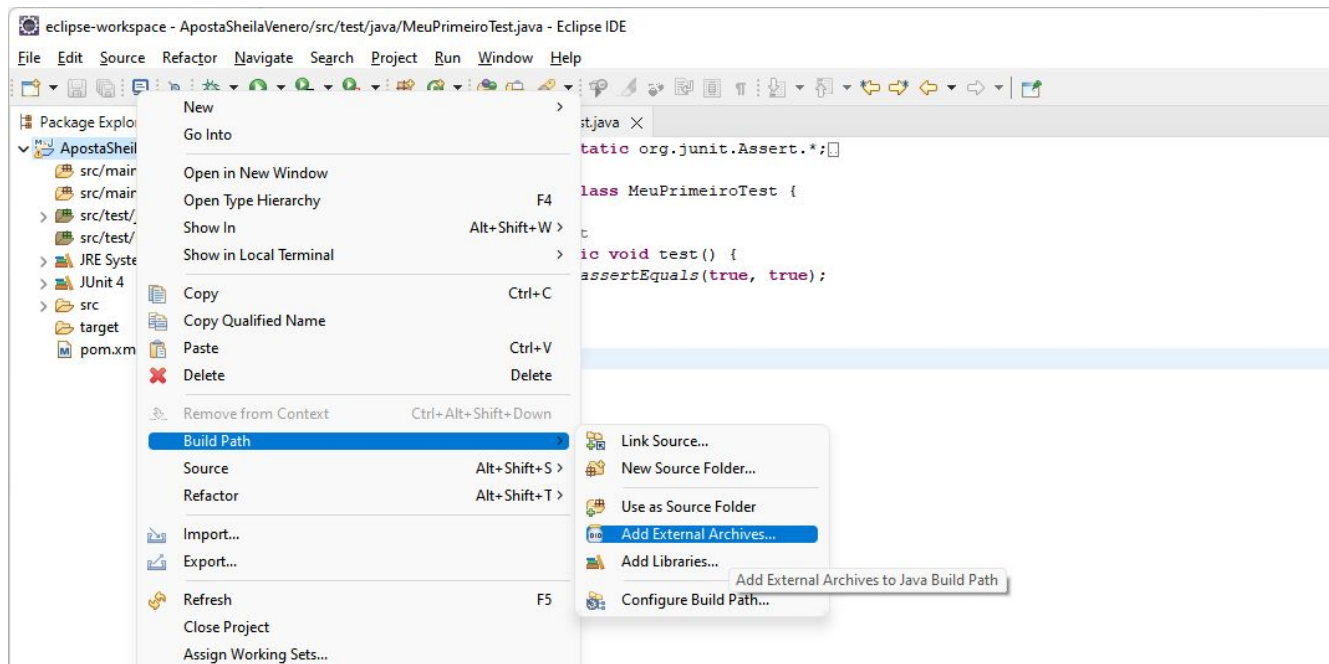
Um arquivo será criado com os test case



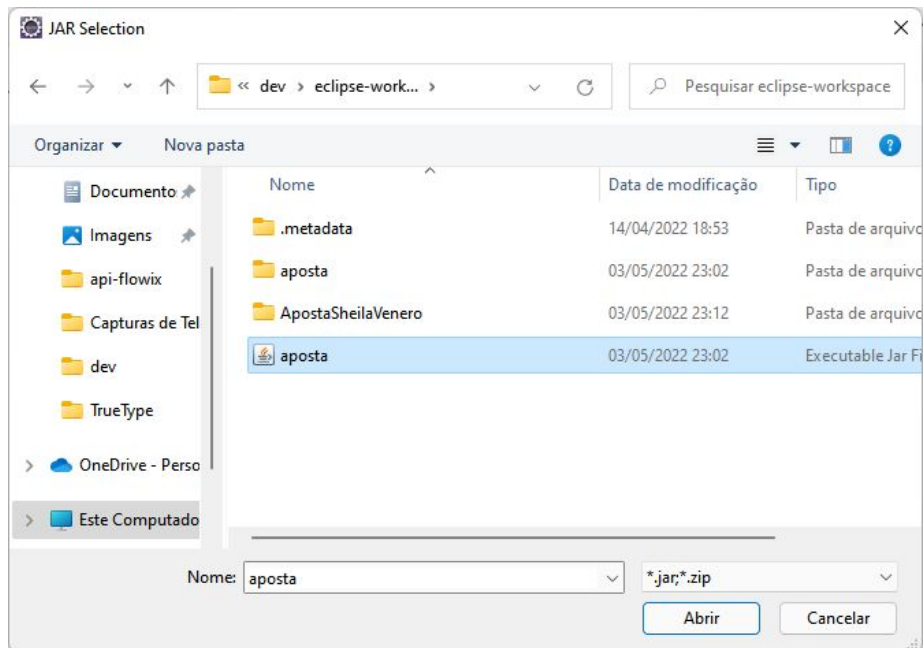
Para rodar os testes, clique com o
botão direito em
'src/test/java' > Run as > JUnit Test



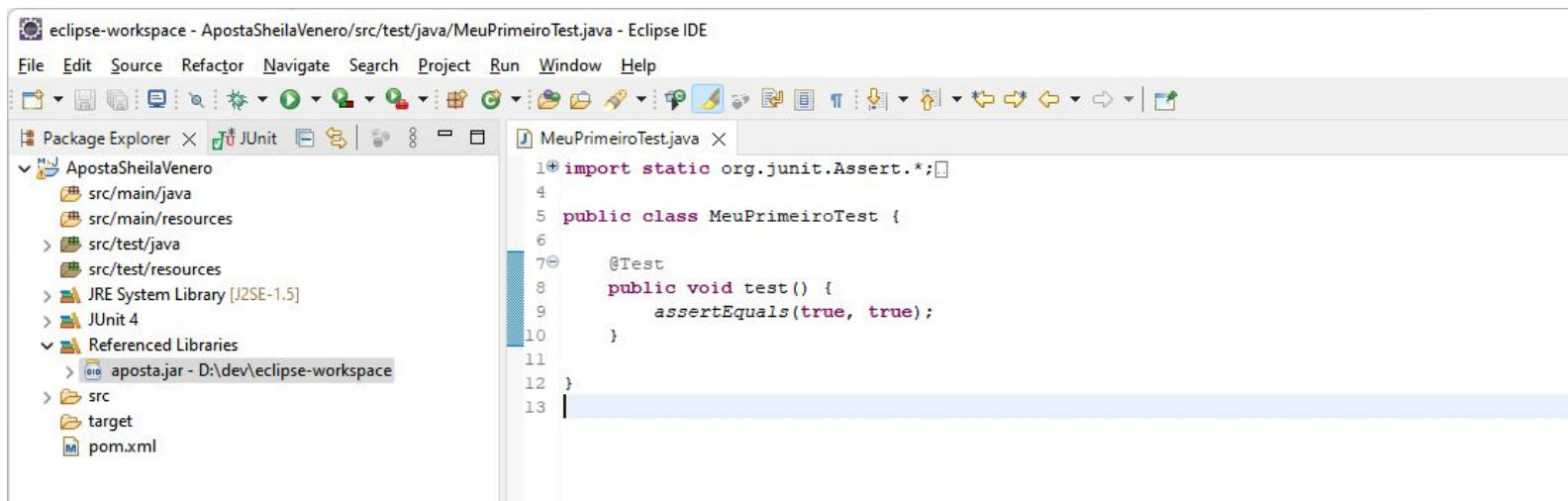
Adicione o JAR da aposta clicando no nome do projeto com o botão direito > Build Path > Add external archives..



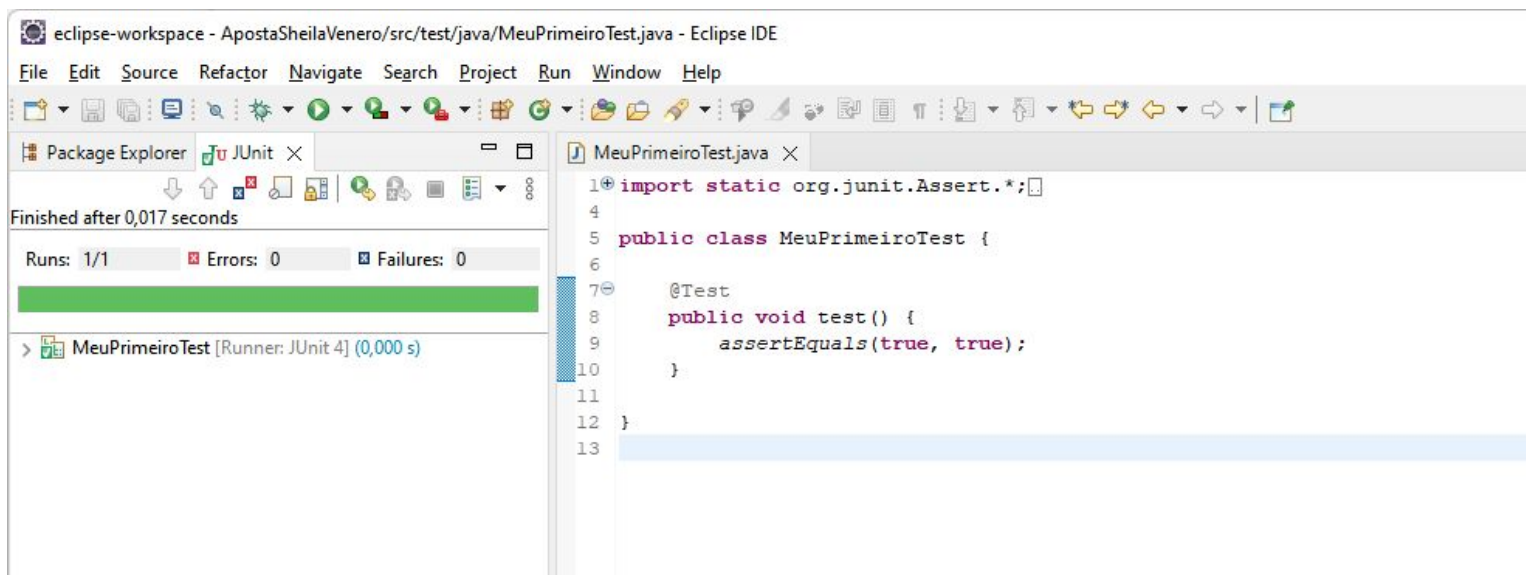
e selecione o 'aposta.jar'



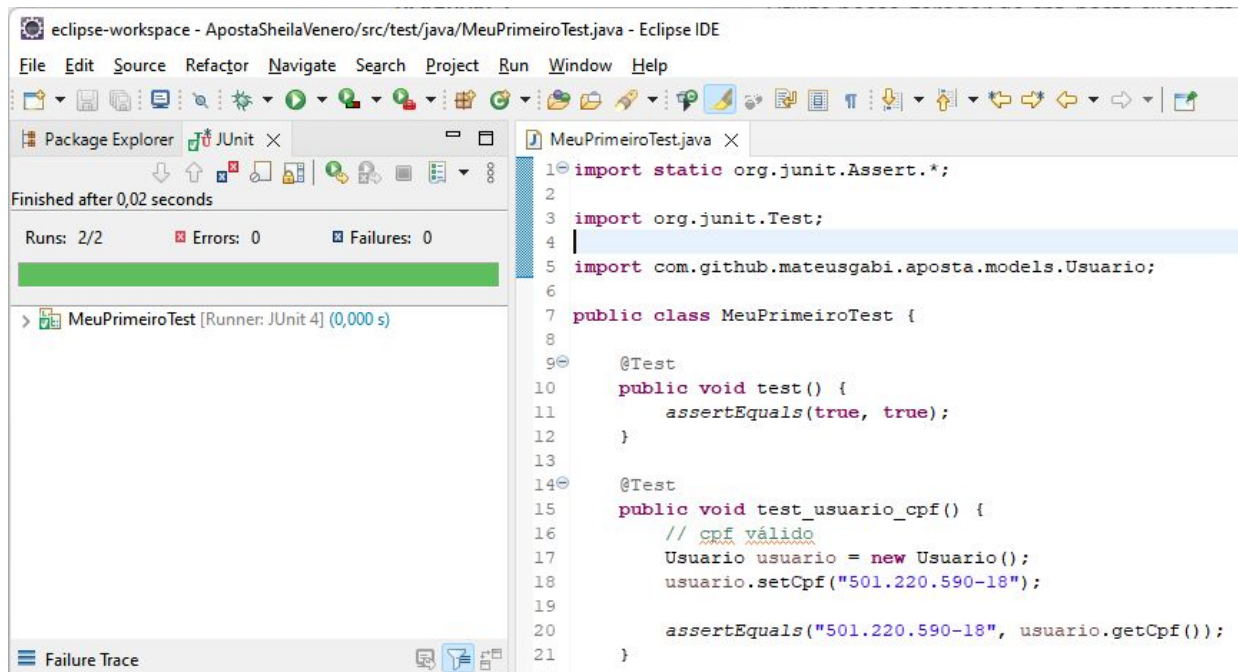
Altere o código-fonte do teste.



Execute os testes novamente. Todos tem que passar.



Crie um novo caso de teste para validar o CPF. Execute os testes mais uma vez.



eclipse-workspace - ApostaSheilaVenero/src/test/java/MeuPrimeiroTest.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit ×

Finished after 0,02 seconds

Runs: 2/2 Errors: 0 Failures: 0

> MeuPrimeiroTest [Runner: JUnit 4] (0,000 s)

```
1 import static org.junit.Assert.*;
2
3 import org.junit.Test;
4
5 import com.github.mateusgabi.aposta.models.Usuario;
6
7 public class MeuPrimeiroTest {
8
9     @Test
10     public void test() {
11         assertEquals(true, true);
12     }
13
14     @Test
15     public void test_usuario_cpf() {
16         // cpf válido
17         Usuario usuario = new Usuario();
18         usuario.setCpf("501.220.590-18");
19
20         assertEquals("501.220.590-18", usuario.getCpf());
21     }
22 }
```



THANK YOU

OBRIGADO

THANK YOU

DANKIE

GRACIAS

MERCIDANKE

GRAZIE

TAKKGRACIES

DIOLCH

DZIĘKUJĘ

TAK

FALEMINDERIT

ESKERIK ASKO

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