Preparação do ambiente

Eclipse & JUnit



Exercício Testes Unitários

```
Arquivos anexados: ☐ SistemaBancario.zip ◯ (15,169 KB)
☐ hamcrest-core-1.3.jar ◯ (43,969 KB)
☐ junit-4.12.jar ◯ (307,551 KB)
☐ Instruções Teste de Unidade com JUnit.pdf ◯ (46,167 KB)
☐ Tutorial.pdf ◯ (899,096 KB)
```

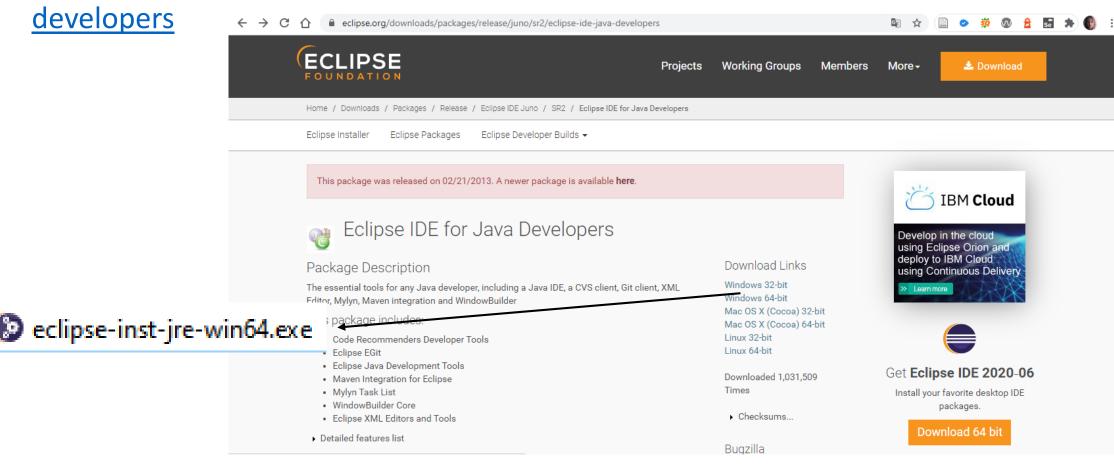
Para a elaboração deste exercício leia o documento em anexo Instruções Teste de Unidade com JUnit.pdf.

Teste Unitário & Eclipse

Instalar Eclipse IDE for Java Developers

https://www.eclipse.org/downloads/packages/release/juno/sr2/eclipse-ide-java-

developers



Eclipse IDE for Java Developers







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Eclipse IDE for Java Developers

The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle integration



Eclipse IDE for Enterprise Java Developers

Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript, TypeScript, JavaServer Pages and Faces, Yaml, Markdown, Web...



Eclipse IDE for C/C++ Developers

An IDE for C/C++ developers.



Eclipse IDE for Embedded C/C++ Developers

An IDE for Embedded C/C++ developers. It includes managed cross build plug-ins (Arm and RISC-V) and debug plug-ins (SEGGER J-Link, OpenOCD, pyocd, and QEMU),...



Eclipse IDE for Web and JavaScript Developers

The essential tools for any JavaScript developer, including JavaScript, TypeScript, HTML, CSS, XML, Yaml, Markdown... languages support; Kubernetes, Angular and...











Eclipse IDE for Java Developers

details

The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle integration.

Java 11+ VM

://download.eclipse.org/justj/jres/15/updates/release/15.0.2 V



Installation Folder

C:\Users\claud\eclipse\java-2020-12



create start menu entry

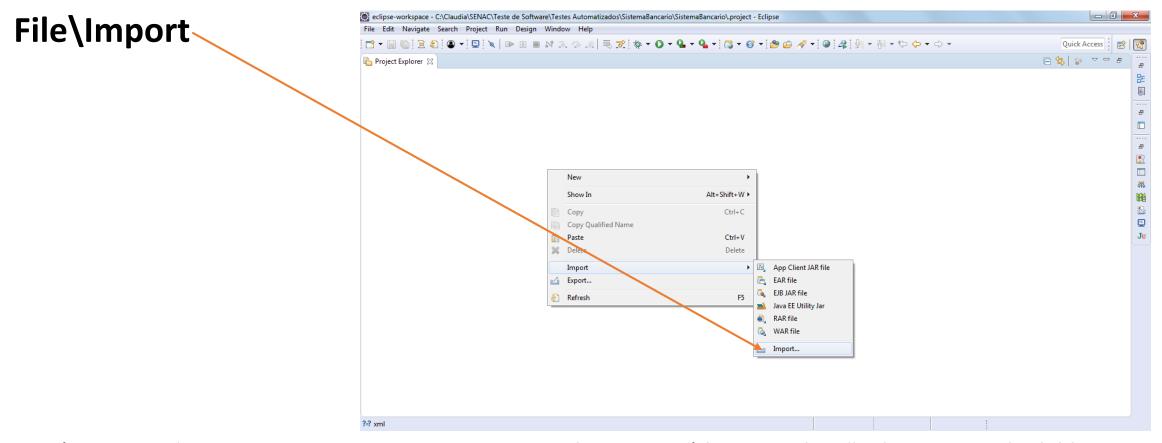




▲ INSTALL



2. Depois de instalado, acesse o Eclipse e **importe o projeto** Sistema Bancário*, disponibilizado no exercício.



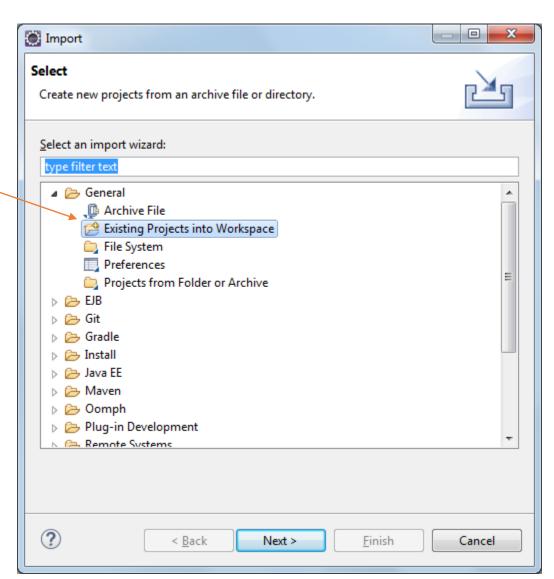
^{*}O arquivo está compactado na pasta SistemaBancario.zip, precisa descompactá-lo para utilização do projeto e das bibliotecas.

2. Importar o projeto Sistema Bancário

Selecione a opção:

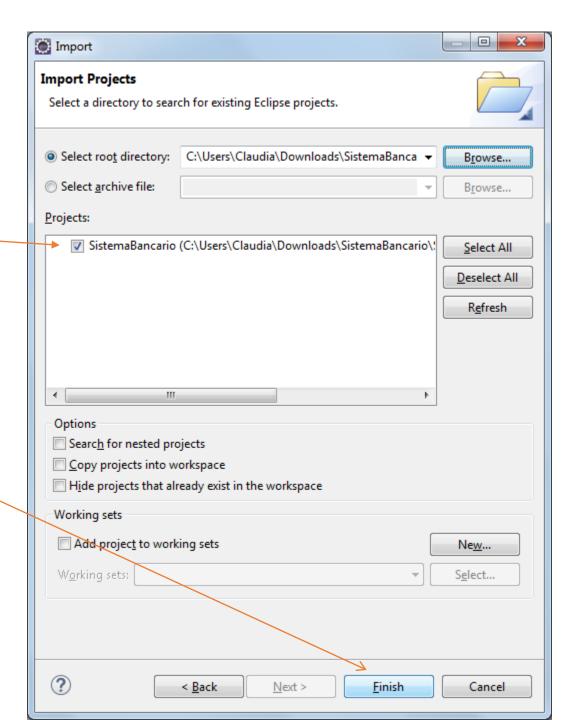
General

Existing Projects into Workspace

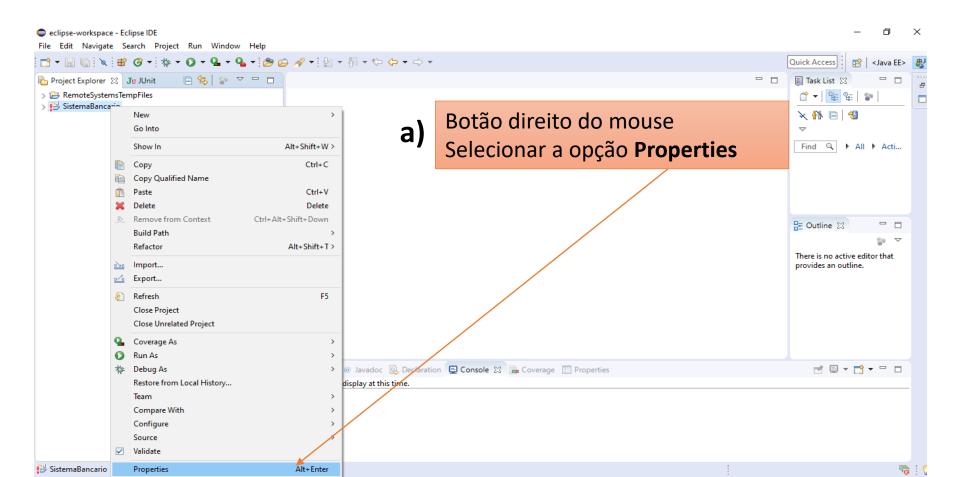


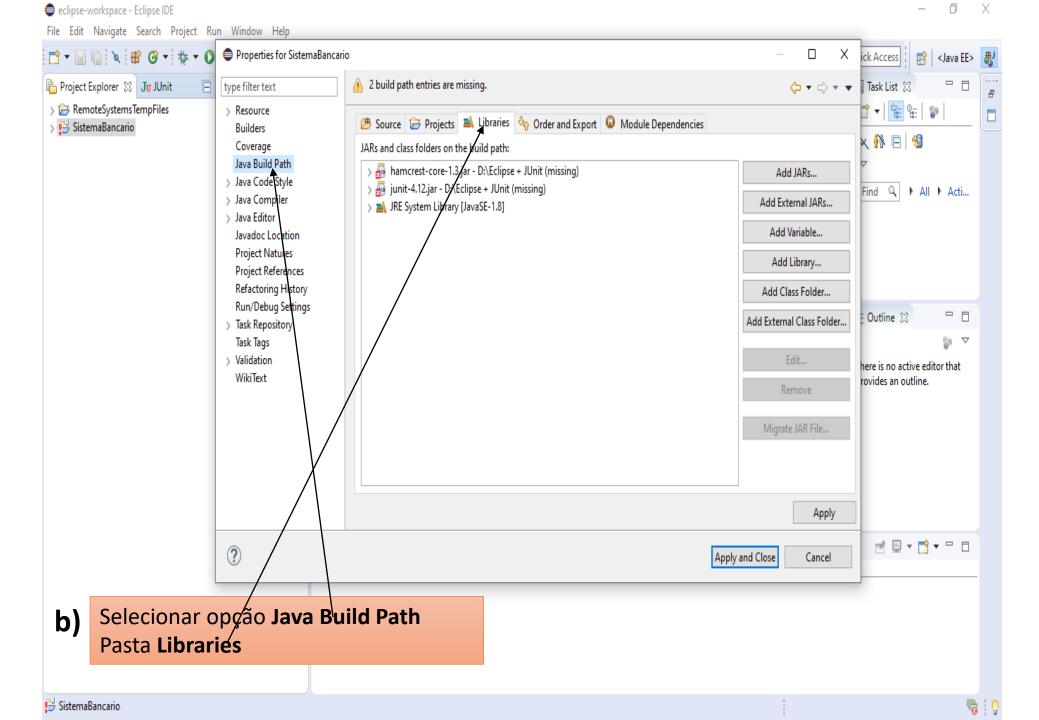
2. Importar o projeto Sistema Bancário Após selecionar o arquivo finalizar a importação:

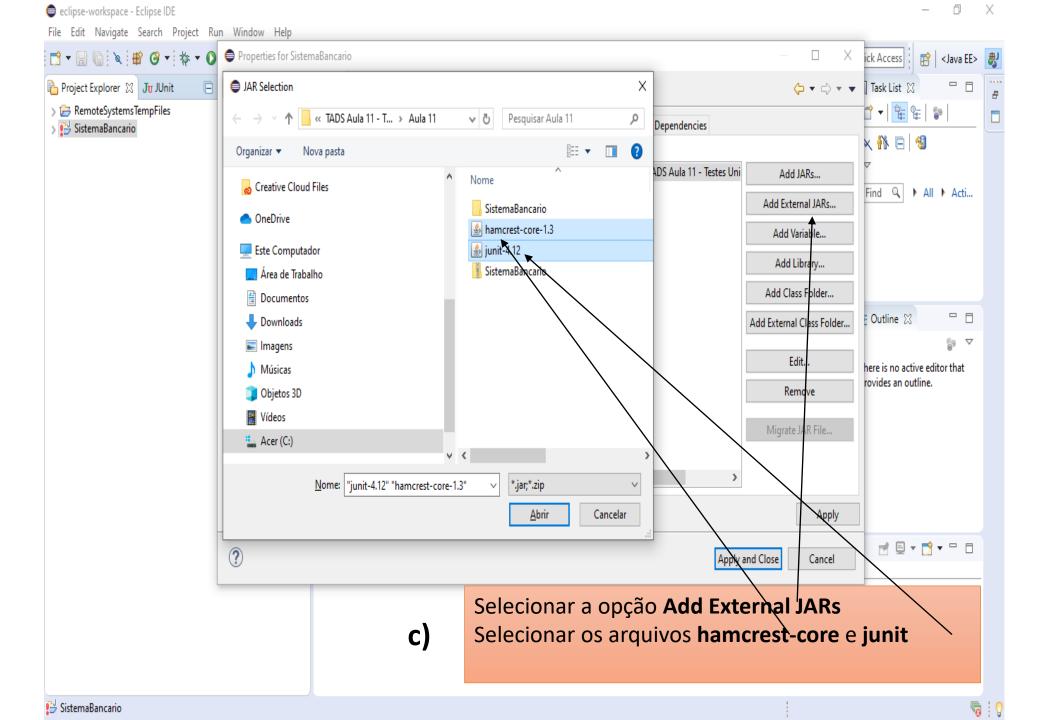
Finish

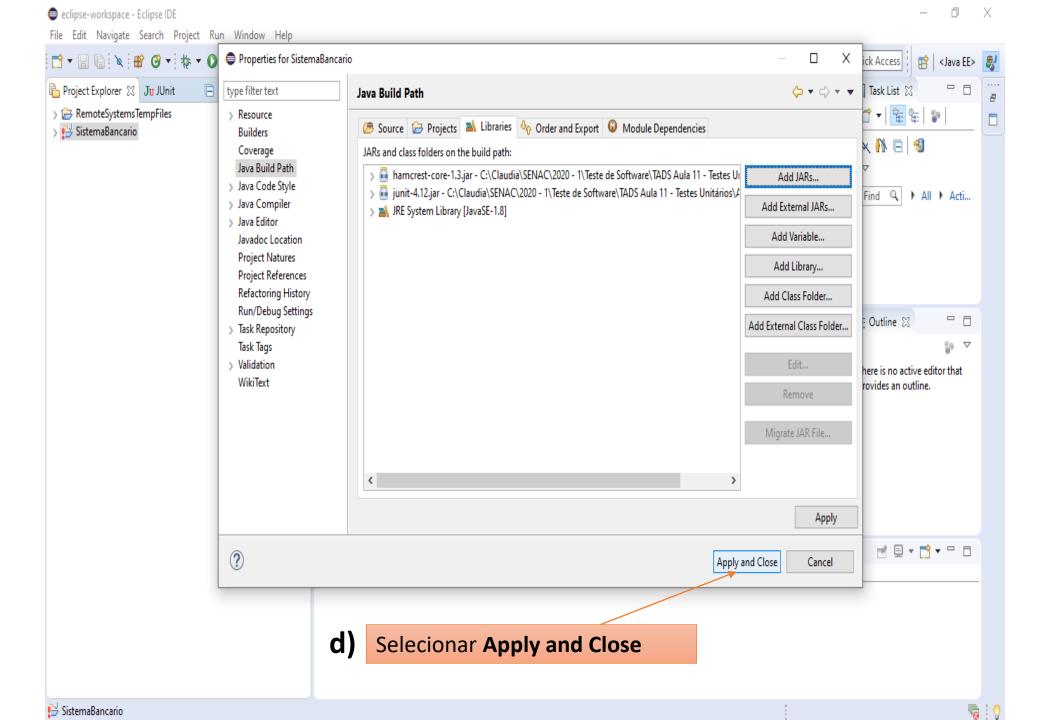


Importar as bibliotecas Junit e hamcrest, seguindo os passos a, b, c,
 d:

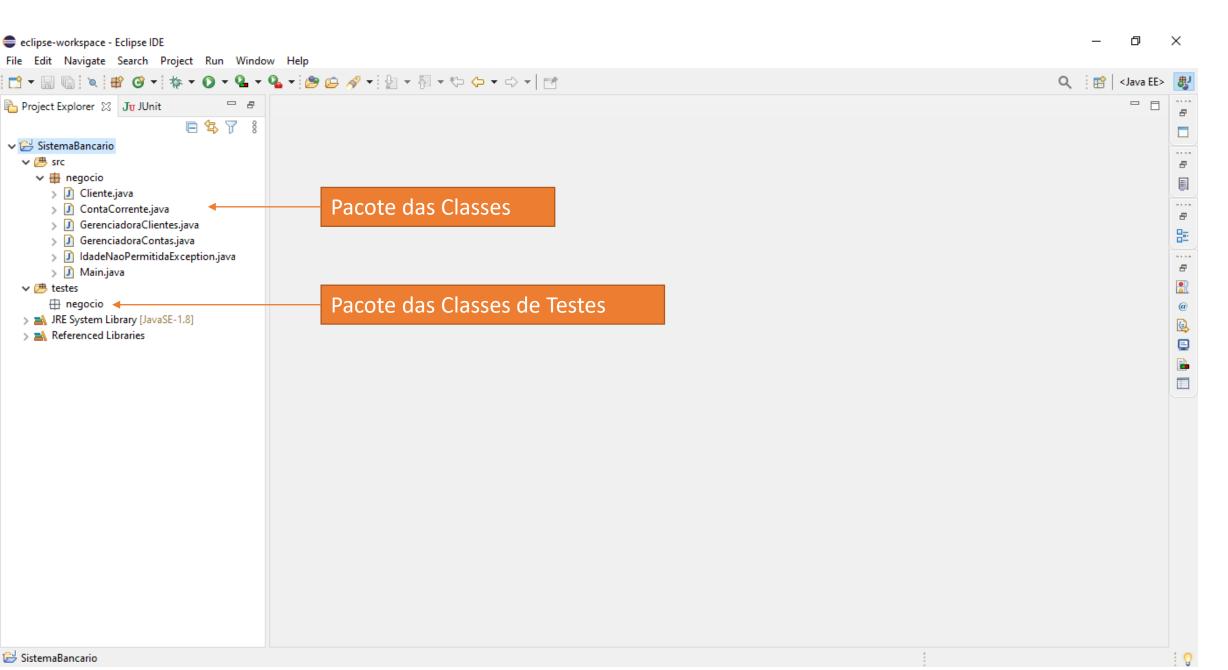






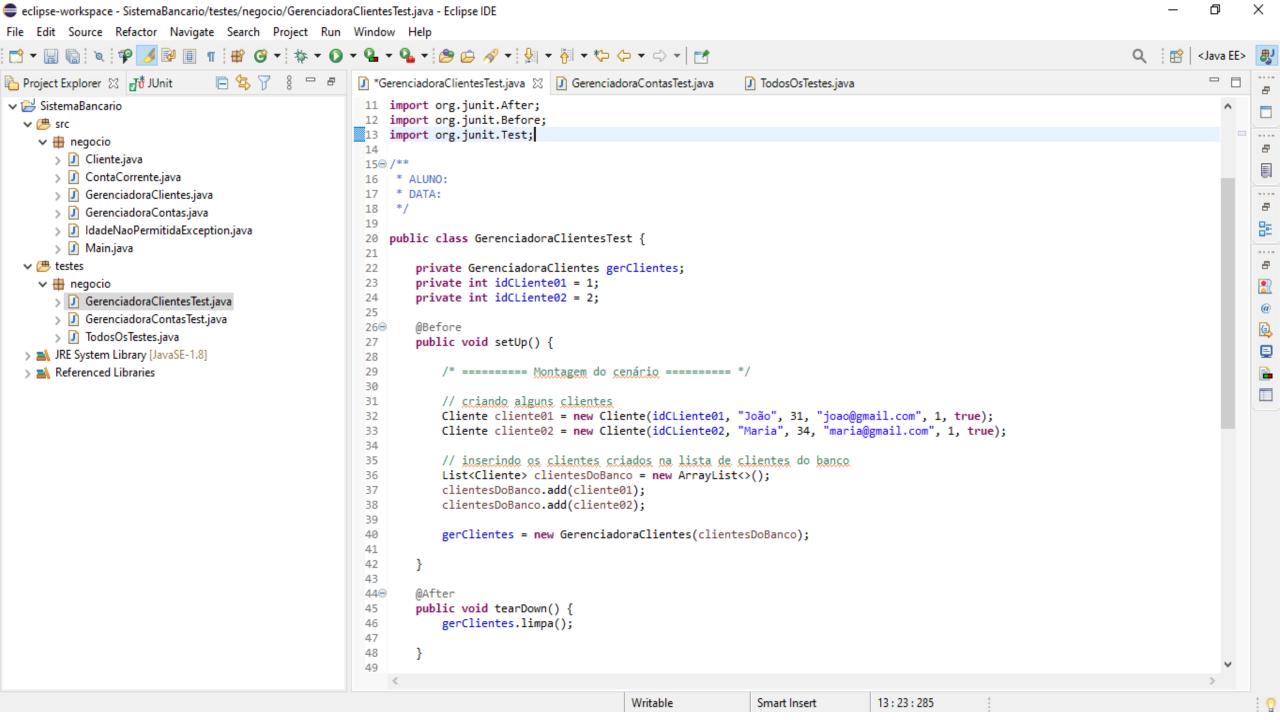


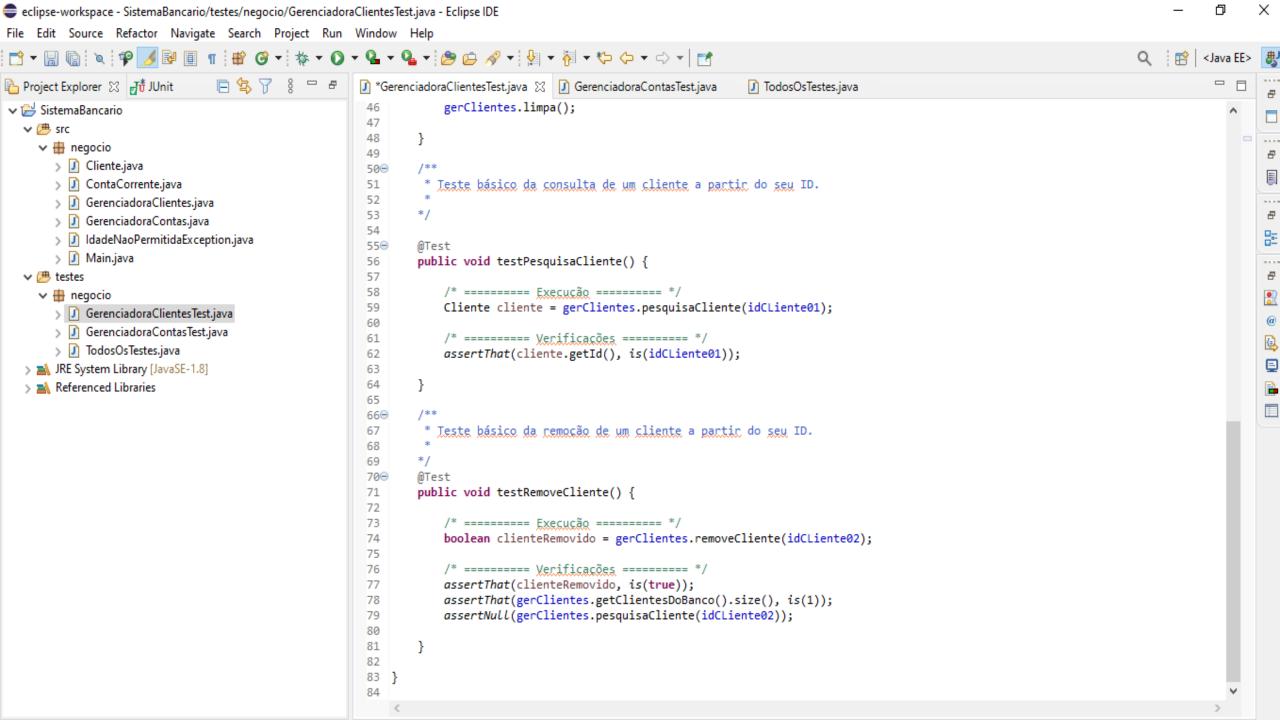
4. Criar as classes de testes no Pacote das Classes de Testes



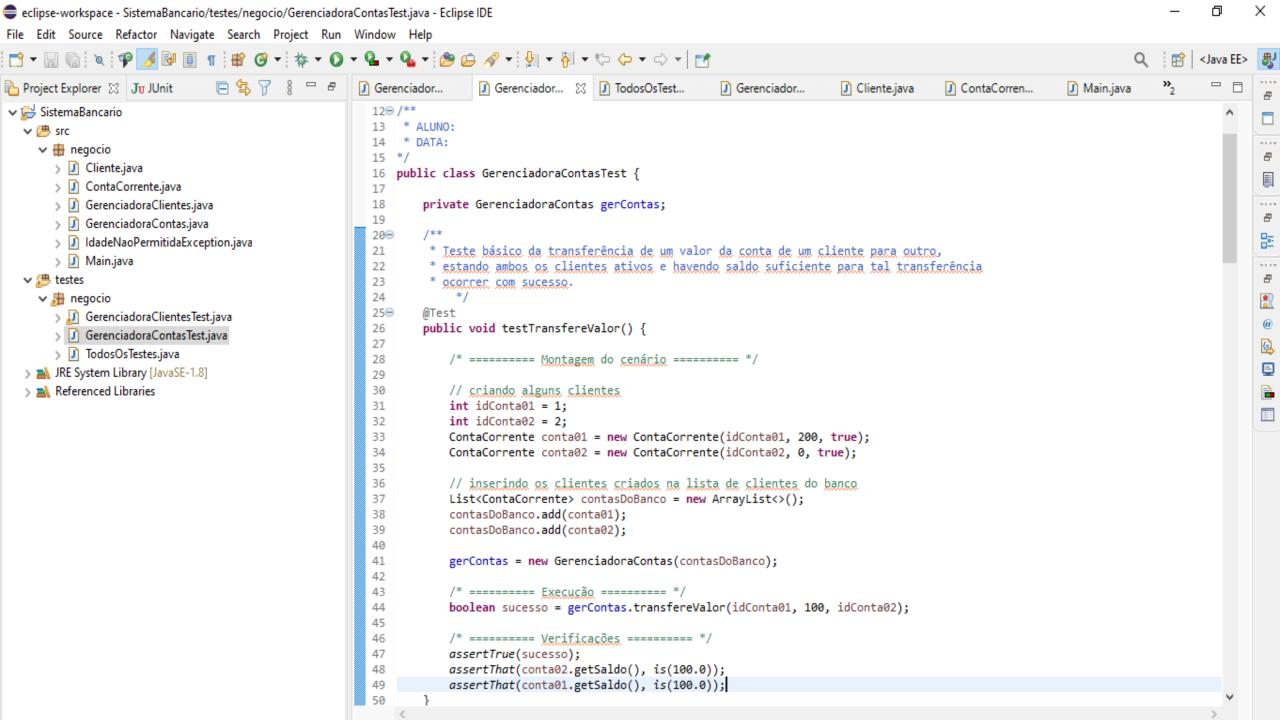
```
3@import static org.junit.Assert.*;
   import static org.hamcrest.CoreMatchers.*;
   import java.util.ArrayList;
   import java.util.List;
   import org.junit.After;
   import org.junit.Before;
   import org.junit.Test;
12
13
14
15@ /**
    * Classe de teste criada para garantir o funcionamento das principais operaDDes
16
17
    * sobre clientes, realizadas pela classe GerenciadoraClientes.
18
19
    */
   public class GerenciadoraClientesTest {
21
22
       private GerenciadoraClientes gerenciarClientes;
23
       private int idClientel = 1;
       private int idCliente2 = 2;
24
25
26
270
       @Before
28
       public void setUp() {
```

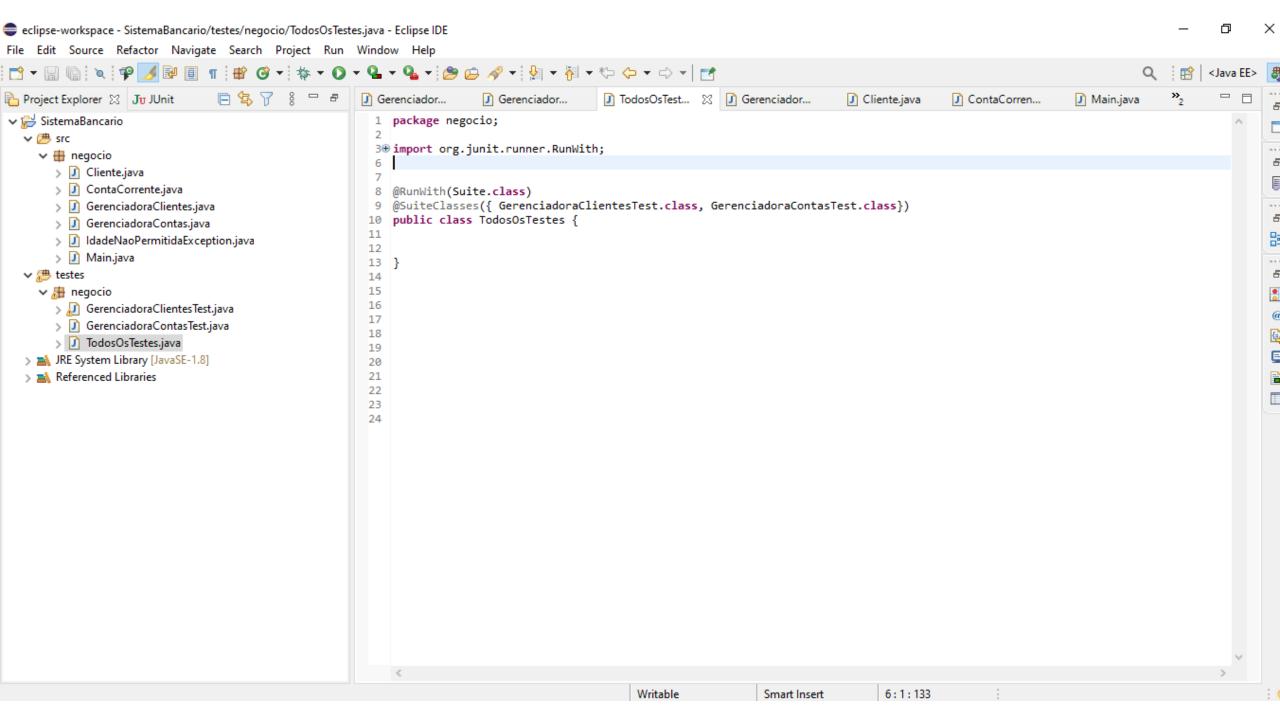
1 package negocio;



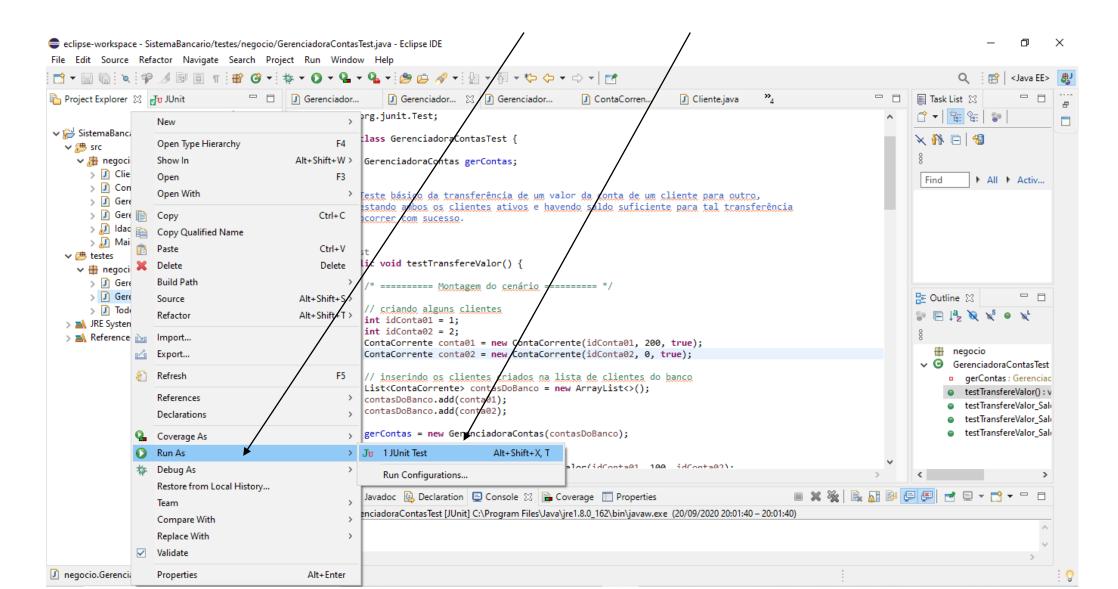


```
package negocio;
 3@import static org.junit.Assert.*;
   import static org.hamcrest.CoreMatchers.*;
   import java.util.ArrayList;
   import java.util.List;
 8
   import org.junit.Test;
10
11
12
139 /**
    * Classe de teste criada para garantir o funcionamento das principais operaDDes
    * sobre contas, realizadas pela classe GerenciadoraContas.
15
16
17
    */
   public class GerenciadoraContasTest {
19
20
       private GerenciadoraContas gerenciadoraContas;
21
22
23⊖
      /**
        * Valida��0 de transferOncia entre contas.
24
        * Centrio: Saldo suficiente em ambas as contas
25
26
        */
27
28⊖
       @Test
29
       public void testTransfereValor() {
30
```





5. Para rodar o teste utilize a opção: Run As Junit Test



6. Rodando o Teste: verifique se o teste passou

