Exercise 1: Setting Up JUnit

Scenario: You need to set up JUnit in your Java project to start writing unit tests.

Steps: 1. Create a new Java project in your IDE (e.g., IntelliJ IDEA, Eclipse).

2. Add JUnit dependency to your project.If you are using Maven, add the following to your pom.xml:

3. Create a new test class in your project.

Solution:

Creating a new project

Creating a package named mytest

Creating a class

Lets have a main code

For example Calculator.java

package mytest;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

}

Adding Junit to project

Creating the test class named CalulatorTest.java

package mytest;

import static org.junit.Assert.assertEquals;

import org.junit.Test;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

int result = calc.add(2, 3);

assertEquals(5, result); // This should pass

}

}