**Exercise 1: Setting Up JUnit :**

**Calculator.java :**

package com.example;

public class Calculator {

public int add(int a, int b) {

System.out.println("Adding numbers: " + a + " + " + b);

int result = a + b;

System.out.println("Computed result: " + result);

return result;

}

public int subtract(int a, int b) {

System.out.println("Subtracting numbers: " + a + " - " + b);

int result = a - b;

System.out.println("Computed result: " + result);

return result;

}

public int multiply(int a, int b) {

System.out.println("Multiplying numbers: " + a + " \* " + b);

int result = a \* b;

System.out.println("Computed result: " + result);

return result;

}

}

**CalculatorTest.java**

package com.example;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

System.out.println("---- Testing add() ----");

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

assertEquals(5, result);

System.out.println("Test add() passed.\n");

}

@Test

public void testSubtract() {

Calculator calc = new Calculator();

System.out.println("---- Testing subtract() ----");

int result = calc.subtract(10, 4);

assertEquals(6, result);

System.out.println("Test subtract() passed.\n");

}

@Test

public void testMultiply() {

Calculator calc = new Calculator();

System.out.println("---- Testing multiply() ----");

int result = calc.multiply(3, 4);

assertEquals(12, result);

System.out.println("Test multiply() passed.\n");

}

**OUTPUT :**

