**Exercise 4: Arrange-Act-Assert (AAA) Pattern, Test Fixtures, Setup and Teardown Methods in JUnit**

**Calculator.java**

package mypackage;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int subtract(int a, int b) {

return a - b;

}

}

**CalculatorTest.java**

package mypackage;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import static org.junit.Assert.assertEquals;

public class CalculatorTest {

private Calculator calc;

@Before

public void setUp() {

calc = new Calculator();

System.out.println("Setting up...");

}

@After

public void tearDown() {

calc = null;

System.out.println("Cleaning up...");

}

@Test

public void testAdd() {

int result = calc.add(4, 6);

assertEquals(10, result);

System.out.println("Addition test passed.");

}

@Test

public void testSubtract() {

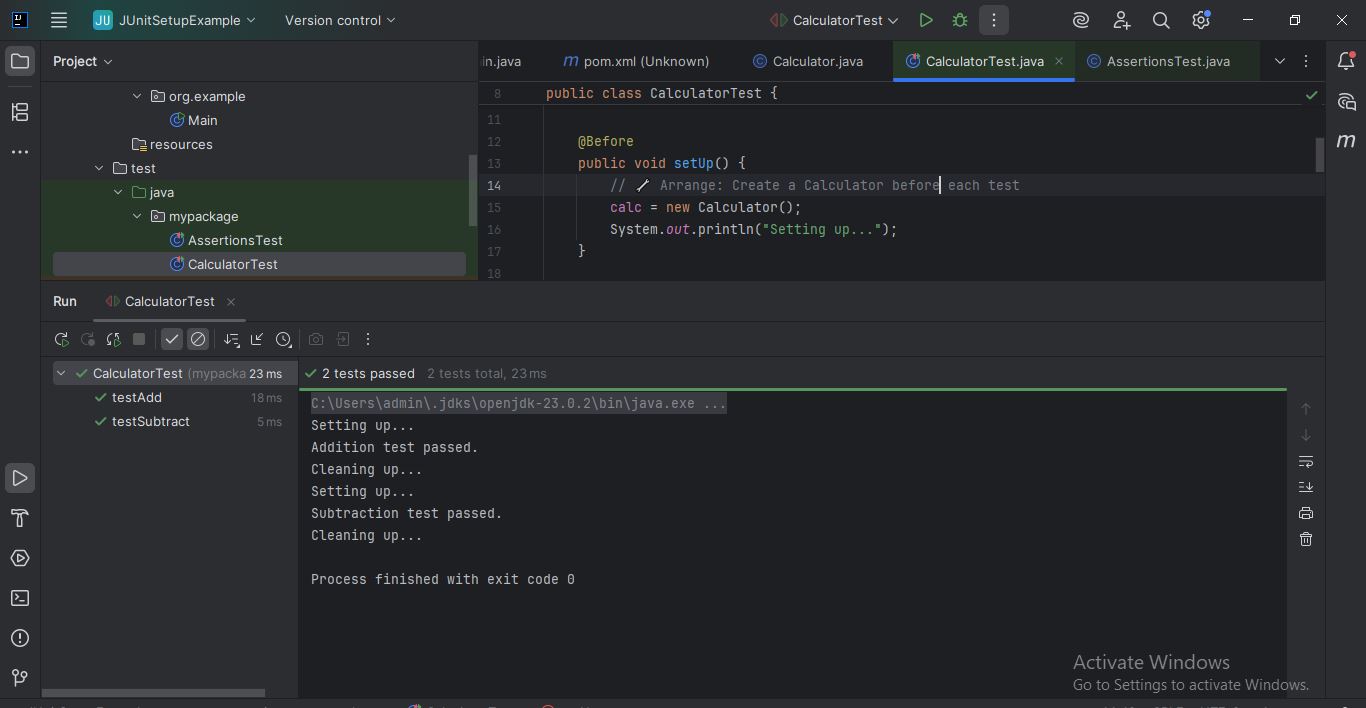
int result = calc.subtract(9, 3);

assertEquals(6, result);

System.out.println("Subtraction test passed.");

}

}

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