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

**Scenario:**

You need to organize your tests using the Arrange-Act-Assert (AAA) pattern and use setup and teardown methods.

**Steps:**

1.Write tests using the AAA pattern.

2. Use @Before and @After annotations for setup and teardown methods.

**cal3.java**

package myprojectmaven;

public class cal3 {

    public int add(int a, int b) {

        return a + b;

    }

    public int subtract(int a, int b) {

        return a - b;

    }

}

**Test Class:**

package myprojectmaven;

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

import static org.junit.Assert.\*;

public class cal3test {

    private cal3 obj;

    @Before

    public void setUp() {

        obj = new cal3();

        System.out.println("Setup.");

    }

    @After

    public void tearDown() {

        System.out.println("Teardown.");

    }

    @Test

    public void testAdd() {

        int a = 5;

        int b = 3;

        int result = obj.add(a, b);

        assertEquals(8, result);

    }

    @Test

    public void testSubtract() {

        int a = 10;

        int b = 4;

        int result = obj.subtract(a, b);

        assertEquals(6, result);

    }

}

**OUTPUT:**

