**Exercise 3 : 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.**

* Implementation :

**Code Snippet :**

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

import static org.junit.Assert.\*;

public class Exercise4 {

    private int number;

    @Before

    public void setUp() {

        number = 10;

    }

    @After

    public void tearDown() {

        number = 0;

    }

    @Test

    public void testAdd() {

        int result = number + 5;

        assertEquals(15, result);

    }

    @Test

    public void testSubtract() {

        int result = number - 3;

        assertEquals(7, result);

    }

}

