**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.

**Code :**

package com.cognizant.JunitTesting;

import org.junit.jupiter.api.\*;

import static org.junit.jupiter.api.Assertions.*assertEquals*;

public class AAATesting {

private Calculator calc;

*@BeforeEach*

public void setUp() {

// Arrange - Create a new calculator before each test

calc = new Calculator();

System.***out***.println("Setup complete.");

}

*@AfterEach*

public void tearDown() {

// Clean up after each test

calc = null;

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

}

*@Test*

public void testAddition() {

// Act

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

// Assert

*assertEquals*(5, result, "Addition should return 5");

}

*@Test*

public void testSubtraction() {

// Act

int result = calc.subract(5, 2);

// Assert

*assertEquals*(3, result, "Subtraction should return 3");

}

}

A computer screen shot of a program

AI-generated content may be incorrect.