**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

**AsserationsTest.java:**

**package** com.example.test;

**import** org.junit.Before;

**import** org.junit.After;

**import** org.junit.Test;

**import** **static** org.junit.Assert.\*;

**public** **class** AssertionsTest {

**private** Object testObject;

@Before

**public** **void** setUp() {

System.***out***.println("Setting up before test...");

testObject = **new** Object();

}

@After

**public** **void** tearDown() {

System.***out***.println("Cleaning up after test...");

testObject = **null**;

}

@Test

**public** **void** testAssertions() {

**int** expected = 5;

**int** a = 2;

**int** b = 3;

**int** result = a + b;

*assertEquals*(expected, result);

*assertTrue*(result > 3);

*assertFalse*(result < 3);

*assertNull*(**null**);

*assertNotNull*(testObject);

}

}

