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

1. AAA.java

package com.exercise3;

public class AAA{

private String name;

private int age;

public AAA(String name, int age) {

this.name = name;

this.age = age;

}

public String getName() { return name; }

public int getAge() { return age; }

public boolean isAdult() { return age >= 18; }

}

1. AAATest.java

package com.exercise3;

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

import static org.junit.Assert.\*;

public class AAATest {

private AAA user;

*@Before*

public void setUp() {

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

user = new AAA("Bob", 20);

}

*@After*

public void tearDown() {

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

user = null;

}

*@Test*

public void testUserIsAdult() {

boolean result = user.isAdult();

*assertTrue*(result);

}

*@Test*

public void testUserName() {

String actualName = user.getName();

*assertEquals*("Bob", actualName);

}

*@Test*

public void testUserAge() {

int age = user.getAge();

*assertEquals*(20, age);

}

}

Output:

