**Exercise 1: Setting Up JUnit**

**pom.xml:**

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**Exercise 3: Assertions in JUnit**

**AssertionsTest.java:**

package com.cts.deepskilling;

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

import org.junit.jupiter.api.Test;

public class AssertionsTest {

@Test

public void testAssertions() {

// Assert equals

*assertEquals*(5, 2 + 3);

// Assert true

*assertTrue*(5 > 3);

// Assert false

*assertFalse*(5 < 3);

// Assert null

*assertNull*(null);

// Assert not null

*assertNotNull*(new Object());

}

}

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

**Addition.java**

package com.cts.deepskilling;

public class Addition

{

public int add(int a, int b)

{

return a + b;

}

}

**AdditionTest.java**

package com.cts.deepskilling;

import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

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

public class AdditionTest

{

private Addition addition;

@BeforeEach

public void setUp()

{

System.*out*.println("Setting up Addition instance...");

addition = new Addition();

}

@AfterEach

public void tearDown()

{

System.*out*.println("Tearing down Addition instance...");

addition = null;

}

@Test

public void testAddition()

{

int a = 5;

int b = 3;

int result = addition.add(a, b);

*assertEquals*(8, result);

}

@Test

public void testAdditionWithZero()

{

int a = 0;

int b = 7;

int result = addition.add(a, b);

*assertEquals*(7, result);

}

}

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