Ex 3-Different assertions in junit to validate your test results

**For Maven (pom.xml):**

XML

<dependencies>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.11.0</version> <scope>test</scope>

</dependency>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-engine</artifactId>

<version>5.11.0</version> <scope>test</scope>

</dependency>

<dependency>

<groupId>org.junit.platform</groupId>

<artifactId>junit-platform-runner</artifactId>

<version>1.11.0</version> <scope>test</scope>

</dependency>

</dependencies>

**Test**

import org.junit.jupiter.api.Test; // For JUnit 5, use jupiter.api

import static org.junit.jupiter.api.Assertions.\*; // Import all static assertion methods

public class AssertionsTest {

@Test

public void testAssertions() {

assertEquals(5, 2 + 3, "2 + 3 should equal 5"); // Added a message for clarity

assertTrue(5 > 3, "5 should be greater than 3");

assertFalse(5 < 3, "5 should not be less than 3");

assertNull(null, "This object should be null");

assertNotNull(new Object(), "This object should not be null");

int[] expectedArray = {1, 2, 3};

int[] actualArray = {1, 2, 3};

assertArrayEquals(expectedArray, actualArray, "Arrays should be equal");

String s1 = new String("hello");

String s2 = s1;

assertSame(s1, s2, "s1 and s2 should reference the same object");

String s3 = new String("hello");

String s4 = new String("hello");

assertNotSame(s3, s4, "s3 and s4 should not reference the same object");

assertThrows(IllegalArgumentException.class, () -> {

throw new IllegalArgumentException("Invalid argument");

}, "Should throw IllegalArgumentException");

}

@Test

public void anotherTest() {

assertEquals("Hello", "Hello");

}

}

