**Exercise 3: Assertions in JUnit Scenario: You need to use different assertions in JUnit to validate your test results. Steps: 1. Write tests using various JUnit assertions.**

**AssertionsTest.java**

**package** com.example;

**import** org.junit.Test;

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

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

@Test

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

*assertEquals*("Sum mismatch", 5, 2 + 3);

*assertTrue*("Expected condition to be true", 10 > 1);

*assertFalse*("Expected condition to be false", 2 > 5);

String nullString = **null**;

*assertNull*("Should be null", nullString);

String notNullString = "JUnit";

*assertNotNull*("Should not be null", notNullString);

String a = "test";

String b = a;

*assertSame*("Should refer to same object", a, b);

String x = **new** String("Hello");

String y = **new** String("Hello");

*assertNotSame*("Should not refer to same object", x, y);

}

}



