Exercise 3: Assertions in JUnit

Scenario

We had to write junit test cases and use diffirent assertions to check if the code is working as expected. Assertions help us to compare actual result with what we expect.

Step 1: Write test using diffrent JUnit assertions

I created a java class called AssertionsTest where I wrote tests for simple conditions using multiple types of assertions like assertTrue, assertFalse, assertEquals etc.

This is my code:

Code: AssertionsTest.java

```
import org.junit.Test;
import static org.junit.Assert.*;

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());
}
</pre>
```

Output After Running mvn test in Terminal

TESTS

Running AssertionsTest

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

BUILD SUCCESS

Explanation of Each Assertion

- assertEquals(5, 2 + 3); \rightarrow checks if sum is 5, which it is
- assertTrue(5 > 3); \rightarrow checks if 5 is greater than 3, which is true
- assertFalse(5 < 3); \rightarrow checks if 5 is not less than 3, so true
- assertNull(null); \rightarrow checks if value is null, which it is
- assertNotNull(new Object()); \rightarrow checks that an object is not null