**Exercise3:** **Assertions in Junit**

**Objective:**

To understand assertions in Junit and implement different types of assertions to validate test results.

**What is Purpose of Assertions?**

Assertions are used to check whether the original result matches the expected outcomes. If assertion fails then, the test fails and provides feedback.

**Usage of Junit Assertions:**

|  |  |
| --- | --- |
| **Assertion Method** | **Description** |
| assertEquals | Checks if two values are equal |
| assertTrue | Verifies a condition if true |
| assertFalse | Verifies a condition if false |
| assertNull | Checks a value is null |
| assertNotNull | Checks a value is not null |

**Construction of Assertion Junit Tests:**

Assertions\_test.java:

|  |
| --- |
| package harshita;  import org.junit.Test;  import static org.junit.Assert.\*;  public class Assertion\_test {  @Test  public void testAssertions () {  // Assert equality  assertEquals (5, 2 + 3);  // Assert that the condition is true  assertTrue (5 > 3);  // Assert that the condition is false  assertFalse (5 < 3);  // Assert that the object is null  assertNull(null);  // Assert that the object is not null  assertNotNull (new Object ());  }  } |

Expected Outcome:

