**Assertions in Selenium**

**https://www.browserstack.com/guide/verify-and-assert-in-selenium**

**Introduction to Assertions:** Assertions are statements that validate expected outcomes during test automation. They help ensure that the application is functioning correctly. In Selenium, assertions are used to compare actual values with expected values and report any discrepancies.

**Common Assertion Libraries:** Selenium doesn't include built-in assertion methods, so testing frameworks like TestNG and JUnit are commonly used to perform assertions. These frameworks provide a variety of assertion methods for test validation.

**Using Assertions with TestNG:**

1. **Importing Dependencies:** To use assertions with TestNG, you need to import the necessary packages.

Java code

import org.testng.Assert;

**Assert Methods:**

**a. assertEquals:** Compares two values for equality.

java code

Assert.assertEquals(actualValue, expectedValue);

**b. assertTrue and assertFalse:** Checks if a given condition is true or false.

java code

Assert.assertTrue(condition); Assert.assertFalse(condition);

**c. assertNull and assertNotNull:** Checks if a value is null or not null.

java code

Assert.assertNull(value); Assert.assertNotNull(value);

**assertSame and assertNotSame: Checks if two references point to the same object.**

java code

Assert.assertSame(actualObject, expectedObject); Assert.assertNotSame(actualObject, expectedObject);