**Assertions:**

===================================

package junitTestScripts;

public class Calculator {

public int add(int n1, int n2)

{

int total = n1+n2;

return total;

}

}

**package** junitTestScripts;

**import** org.junit.jupiter.api.Assertions;

**import** org.junit.jupiter.api.BeforeEach;

**import** org.junit.jupiter.api.Test;

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

Calculator obj;

@BeforeEach

**public** **void** setup()

{

obj = **new** Calculator();

}

@Test

**public** **void** Testadd()

{

**int** expectnumber = 40;

**int** actualnumber = obj.add(2, 2);

Assertions.*assertEquals*(expectnumber, actualnumber); // test will fail with assertion

// give custom message with assertion method

// Assertions.assertEquals(expectnumber, actualnumber,"Sum is Incorrect..recheck the code");

}

@Test

**public** **void** Testadd2()

{

**int** expectnumber = 40;

**int** actualnumber = obj.add(2, 2);

Assertions.*assertNotEquals*(expectnumber, actualnumber); // test will pass

}

@Test

**public** **void** TestAssertArray()

{

Assertions.*assertArrayEquals*(**new** **int**[] {1,2,3}, **new** **int**[] {1,2,3});

Assertions.*assertArrayEquals*(**new** **int**[] {1,2,3}, **new** **int**[] {1,2,3,4,5});

}

@Test

**public** **void** TestassertNull()

{

String str1 = **null**;

Assertions.*assertNull*(str1); // string is null, so test will pass

}

@Test

**public** **void** TestassertnotNull()

{

String str1 = "selenium";

Assertions.*assertNotNull*(str1); // string is not null, so test will pass

}

@Test

**public** **void** TestassertSame()

{

String str1 = "selenium";

String str2 = "tool";

Assertions.*assertSame*(str1, str2);

}

@Test

**public** **void** TestassertnotSame()

{

String str1 = "selenium";

String str2 = "selenium";

Assertions.*assertNotSame*(str1, str2);

}

@Test

**public** **void** TestassertTrue()

{

**int** a =20;

**int** b = 30;

Assertions.*assertTrue*(a<b); // condition is true.. test will pass

Assertions.*assertFalse*(a<b); // test will fail  as condition is true

// for the above lines to pass, the condition should return false value

}

}