**Exercise 3: Assertions in Junit:**

TestAssertions class:

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

import java.util.ArrayList;

import org.junit.jupiter.api.Test;

class TestAssertions {

    @Test

    void test() {

        //assertEquals  --> takes  expected,actual outputs and the test case passes if both

matches otherwise fails.

        assertEquals(12, 2\*6);

        //assertTrue --> test case passes if the given parameter evaluates to true otherwise fails.

        assertTrue(true);

        //assertTrue --> test case passes if the given parameter evaluates to false otherwise fails.

        assertFalse(false);

        //assertNull --> test case passes if the given parameter(object) is null otherwise fails.

        assertNull(null);

        //assertNotNull --> test case passes if the given parameter(object) is not null

otherwise fails.

        assertNotNull(new ArrayList<Integer>());

    }

}

Pom.xml file

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>junit</groupId>

<artifactId>Junit5setup</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.12.0</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

Output:

