**pom.xml:**

<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>com</groupId>

<artifactId>junit-tests</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-engine -->

<dependency>

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

<artifactId>junit-jupiter-engine</artifactId>

<version>5.9.3</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.junit.platform/junit-platform-runner -->

<dependency>

<groupId>org.junit.platform</groupId>

<artifactId>junit-platform-runner</artifactId>

<version>1.9.3</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.1</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-war-plugin</artifactId>

<version>3.3.1</version>

</plugin>

</plugins>

<finalName>JunitDemo</finalName>

</build>

</project>

**CalculateAreaApp.java:**

**package** com;

**public** **class** CalculateAreaApp {

**public** **int** calcArea(**int** l, **int** b) {

**return** l\*b;

}

}

**CalculateAreaTest.java:**

**package** com;

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

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

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

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

**import** org.junit.platform.runner.~~JUnitPlatform~~;

**import** org.junit.runner.RunWith;

@RunWith(~~JUnitPlatform~~.**class**)

**class** CalculateAreaTest {

**private** CalculateAreaApp calculateAreaApp;

@BeforeEach

**private** **void** init() {

**this**.calculateAreaApp = **new** CalculateAreaApp();

}

@Test

**void** areaTest1() {

Assertions.*assertEquals*(4, calculateAreaApp.calcArea(2, 2));

}

@Test

**void** areaTest2() {

Assertions.*assertEquals*(0, calculateAreaApp.calcArea(0, 5));

}

@Test

**void** test3() {

Assertions.*assertTrue*(calculateAreaApp.calcArea(3, 5) > calculateAreaApp.calcArea(10, 1));

}

@Test

**void** test4() {

Assertions.*assertFalse*(calculateAreaApp.calcArea(3, 5) < calculateAreaApp.calcArea(10, 1));

}

@Test

**void** test5() {

String str = **null**;

Assertions.*assertNull*(str);

}

@Test

**void** test6() {

String str = "Not null";

Assertions.*assertNotNull*(str);

}

@Test

**void** test7() {

Assertions.*assertNotEquals*(12,calculateAreaApp.calcArea(10, 1));

}

}