**WEEK-2**

**MODULE-4**

**JUNIT TESTING EXERCISES**

**SUPERSET ID:6407550**

**Exercise 1: Setting Up Junit**

**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.example</groupId>

<artifactId>JUnitDemo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

<artifactId>maven-resources-plugin</artifactId>

<version>3.2.0</version>

</plugin>

</plugins>

</build>

</project>

**src/main/java/com/example/Calculator.java**

package com.example;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int multiply(int a, int b) {

return a \* b;

}

}

**src/test/java/com/example/CalculatorTest.java**

package com.example;

import org.junit.Test;

import static org.junit.Assert.assertEquals;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

int result = calc.add(5, 3);

assertEquals(8, result); // Asserts that 5 + 3 = 8

}

@Test

public void testMultiply() {

Calculator calc = new Calculator();

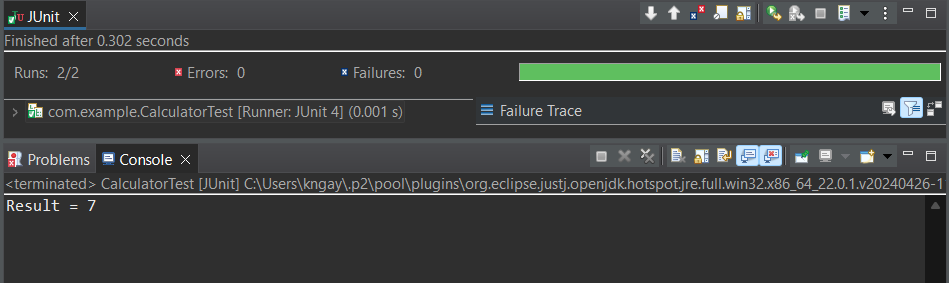
int result = calc.multiply(4, 2);

assertEquals(8, result); // Asserts that 4 \* 2 = 8

}

}

**OUTPUT:**

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