**WEEK-2**

**MODULE-4**

**JUNIT TESTING EXERCISES**

**SUPERSET ID:6407550**

**Exercise 2: Writing Basic JUnit Tests**

**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**

**MathUtils.java**

package com.example;

public class MathUtils {

public int square(int x) {

return x \* x;

}

public boolean isEven(int x) {

return x % 2 == 0;

}

public int max(int a, int b) {

return (a > b) ? a : b;

}

}

**src/test/java**

**MathUtilsTest.java**

package com.example;

import static org.junit.Assert.\*;

import org.junit.Test;

public class MathUtilsTest {

@Test

public void testSquare() {

MathUtils mu = new MathUtils();

int result = mu.square(4);

System.out.println("Square Result = " + result);

assertEquals(16, result);

}

@Test

public void testIsEven() {

MathUtils mu = new MathUtils();

boolean result = mu.isEven(6);

System.out.println("Is Even Result = " + result);

assertTrue(result);

}

@Test

public void testMax() {

MathUtils mu = new MathUtils();

int result = mu.max(10, 20);

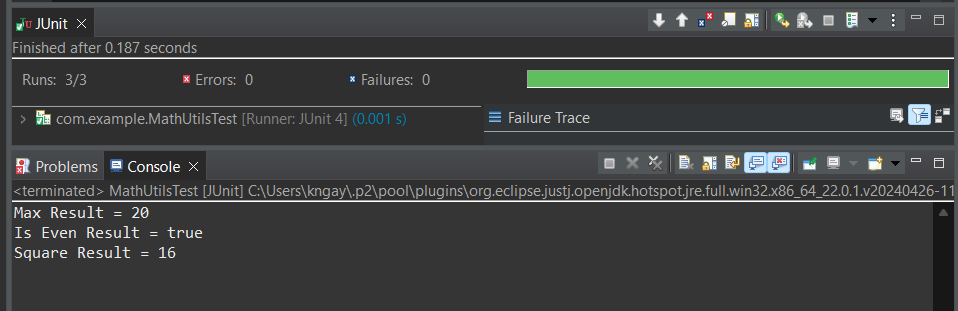
System.out.println("Max Result = " + result);

assertEquals(20, result);

}

}

**OUTPUT:**

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