**Exercise 1: Setting Up JUnit**

**Add JUnit Dependency to 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

http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.example</groupId>

<artifactId>junit-demo</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

**Create a Java Class**

public class Calculator {

public int add(int a, int b) {

return a + b;

}

}

**Create a JUnit Test Class**

import org.junit.Test;

import static org.junit.Assert.assertEquals;

public class CalculatorTest {

@Test

public void testAddition() {

Calculator calc = new Calculator();

int result = calc.add(2, 3);

assertEquals(5, result);

}

}

**OUTPUT**

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Running com.example.CalculatorTest

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.01 s

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0