**Module 4 - Test driven development and Logging framework**

**Exercise 1: Setting Up Junit**

**Question:**

**Scenario: You need to set up JUnit in your Java project to start writing unit tests.**

**Step 1:** Create a new Java Maven project in your IDE.

**Step 2:** Add the JUnit dependency to your pom.xml file inside the <dependencies> section

**xml**

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

**Step 3:** Create the Java class to be tested.

**Filename:** Calculator.java

public class Calculator {

public int add(int a, int b) {

return a + b;

}

}

**Step 4:** Create the JUnit test class.

**Filename:** CalculatorTest.java

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(2, 3);

assertEquals(5, result);

}

}

**OUTPUT:**

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

BUILD SUCCESS