**Exercise 1: Setting Up JUnit**

**Code:**

***CalculatorTest.java***

package com.example;

import static org.junit.Assert.assertEquals;

import org.junit.Test;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

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

assertEquals(8, result);

}

}

***Calculator.java***

package junitdemo;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

}

***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.junitexample</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>

</project>

**Output:**

