**Exercise 1: Setting Up JUnit**

pom.xml file:

<?xml version="1.0" encoding="UTF-8"?>

<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>demo</artifactId>

    <version>1.0-SNAPSHOT</version>

    <properties>

        <maven.compiler.source>17</maven.compiler.source>

        <maven.compiler.target>17</maven.compiler.target>

    </properties>

    <dependencies>

        <dependency>

            <groupId>junit</groupId>

            <artifactId>junit</artifactId>

            <version>4.13.2</version>

            <scope>test</scope>

        </dependency>

    </dependencies>

</project>

Calculator.java:

package com.example;

public class Calculator {

    public int add(int a, int b) {

        return a + b;

    }

}

CalculatorTest.java:

package com.example;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

    @Test

    public void testAdd() {

        Calculator calc = new Calculator();

        assertEquals(5, calc.add(2, 3));

    }

}

Output:

