Exercise 1 : Setting up Junit

Exercise 1: Setting Up JUnit Scenario:

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

Steps: 1. Create a new Java project in your IDE (e.g., IntelliJ IDEA, Eclipse).

2. Add JUnit dependency to your project. If you are using Maven, add the following to your pom.xml: junit junit 4.13.2 test

3. Create a new test class in your project.

Code:  
  
 package com.example.demo;

import static org.junit.Assert.assertEquals;

import org.junit.jupiter.api.Test;

import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest

class DemoApplicationTests {

    @Test

    void contextLoads() {

    }

    private final Calculator calculator = new Calculator();

    @Test

    void testAdd() {

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

        assertEquals(8, result);

    }

    @Test

    void testSubtract() {

        int result = calculator.subtract(5, 3);

        assertEquals(2, result);

    }

    @Test

    void testMultiply() {

        int result = calculator.multiply(5, 3);

        assertEquals(15, result);

    }

    @Test

    void testDivide() {

        double result = calculator.divide(6, 3);

        assertEquals(2.0, result, 0.001);}

}

Output:  
A screenshot of a computer

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