**Exercise 1: Setting up Junit**

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A screenshot of a computer

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**Exercise 3: Assertions in Junit**

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**Exercise 4:**

**CalculatorTest.java**

package com.example;

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

    private Calculator calculator;

    // Setup - runs before each test

    @Before

    public void setUp() {

        calculator = new Calculator(); // Arrange

        System.out.println("Setup: Calculator instance created");

    }

    // Teardown - runs after each test

    @After

    public void tearDown() {

        System.out.println("Teardown: Test completed");

    }

    @Test

    public void testAddition() {

        // Act

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

        // Assert

        assertEquals(5, result);

    }

    @Test

    public void testSubtraction() {

        int result = calculator.subtract(10, 4);

        assertEquals(6, result);

    }

}

**Calculator.java**

package com.example;

public class Calculator {

    public int add(int a, int b) {

        return a + b;

    }

    public int subtract(int a, int b) {

        return a - b;

    }

}

A screenshot of a computer program

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