JUnit\_Basic Testing Exercises

Exercise 4: Arrange-Act-Assert (AAA) Pattern, Test Fixtures, Setup and Teardown Methods in JUnit1.

Scenario:

You need to organize your tests using the Arrange-Act-Assert (AAA) pattern and use setup and teardown methods.

Steps:

1. Write tests using the AAA pattern.

2. Use @Before and @After annotations for setup and teardown methods.

CODE:  
package com.example.demo;

import static org.junit.jupiter.api.Assertions.\*;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.Test;

class Calculator {

    public int add(int a, int b) {

        return a + b;

    }

    public int subtract(int a, int b) {

        return a - b;

    }

}

public class CalculatorTest {

    private Calculator calculator;

    @BeforeEach

    public void setUp() {

        calculator = new Calculator();

    }

    @AfterEach

    public void tearDown() {

        calculator = null;

    }

    @Test

    public void testAddition() {

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

        assertEquals(5, result);

    }

    @Test

    public void testSubtraction() {

        int result = calculator.subtract(5, 2);

        assertEquals(3, result);

    }

}

OUTPUT:  
A screenshot of a computer program

AI-generated content may be incorrect.