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

Scenario: You need to organize your tests using the Arrange-Act-Assert (AAA) pattern and use setup and teardown methods.   
  
public class CalculatorTest {

private static Calculator calculator;

public static void setUp() {

calculator = new Calculator();

System.out.println("Setup complete");

}

public static void tearDown() {

calculator = null;

System.out.println("Teardown complete");

}

public static void testAddition() {

int a = 4, b = 6; // Arrange

int result = calculator.add(a, b); // Act

if (result == 10) { // Assert

System.out.println("testAddition passed");

} else {

System.out.println("testAddition FAILED: Expected 10 but got " + result);

}

}

public static void testSubtraction() {

int a = 10, b = 3;

int result = calculator.subtract(a, b);

if (result == 7) {

System.out.println("testSubtraction passed");

} else {

System.out.println("testSubtraction FAILED: Expected 7 but got " + result);

}

}

public static class Calculator {

public int add(int a, int b) { return a + b; }

public int subtract(int a, int b) { return a - b; }

}

public static void main(String[] args) {

setUp();

testAddition();

tearDown();

setUp();

testSubtraction();

tearDown();

}

}