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**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.

Steps:

1. Write tests using the AAA pattern.
2. Use @Before and @After annotations for setup and teardown methods.

**Solution:**

**Calculator.java (src/main/java)**

package com.amogh.testing;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int multiply(int a, int b) {

return a \* b;

}

}

**CalculatorTest.java (src/test/java)**

package com.amogh.testing;

import static org.junit.Assert.\*;

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

public class CalculatorTest {

private Calculator calc;

@Before

public void setUp() {

calc = new Calculator();

}

@After

public void tearDown() {

calc = null;

}

@Test

public void testAdd() {

int a = 3;

int b = 4;

int result = calc.add(a, b);

assertEquals(7, result);

}

@Test

public void testMultiply() {

int a = 2;

int b = 5;

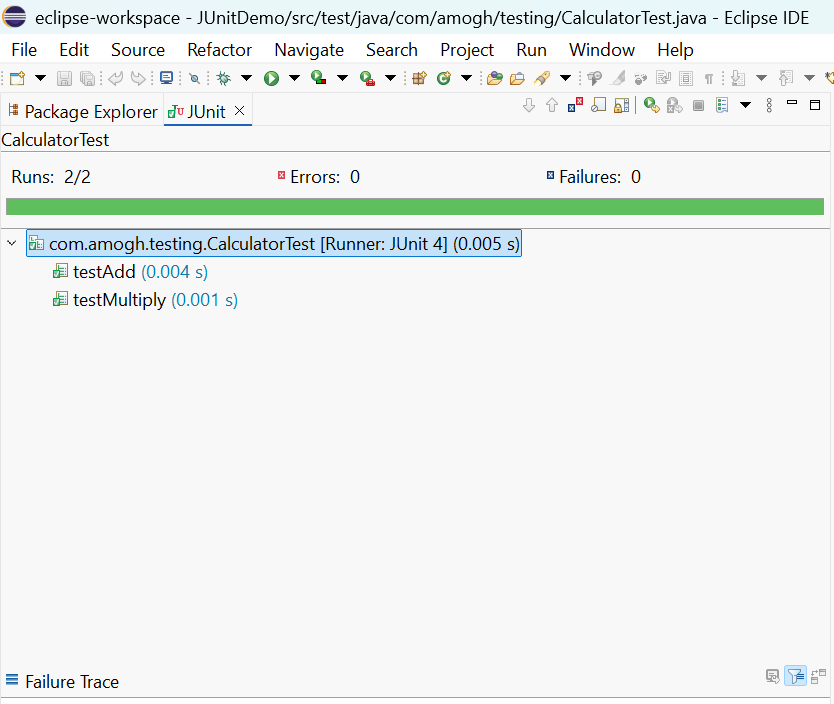
int result = calc.multiply(a, b);

assertEquals(10, result);

}

}

**Output:**

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