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**EXERCISE 1: SETTING UP JUNIT**

1. public class Calculator{

}

1. pom.xml:

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

1. import static org.junit.Assert.\*;

import org.junit.Test;

public class CalculatorTest {

@Test

public void test() {

fail("Not yet implemented");

}

}

**EXERCISE 3: ASSERTIONS IN JUNIT**

import org.junit.Test;

import static org.junit.Assert.\*;

public class AssertionsTest {

@Test

public void testAssertions() {

assertEquals(5, 2 + 3);

assertTrue(5 > 3);

assertFalse(5 < 3);

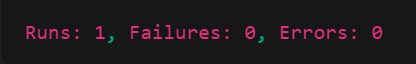
assertNull(null);

assertNotNull(new Object());

}

}

**Output:**



**EXERCISE 4: ARRANGE-ACT-ASSERT (AAA) PATTERN, TEST FIXTURES, SETUP AND TEARDOWN METHODS IN JUNIT**

import org.junit.Before;

import org.junit.After;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

private Calculator calculator;

@Before

public void setUp() {

System.out.println("Setting up...");

calculator = new Calculator();

}

@After

public void tearDown() {

System.out.println("Cleaning up...");

calculator = null;

}

@Test

public void testAddition() {

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

assertEquals(5, result);

}

@Test

public void testDivision() {

int result = calculator.divide(10, 2);

assertEquals(5, result);

}

@Test(expected = ArithmeticException.class)

public void testDivisionByZero() {

calculator.divide(10, 0);

}

}

**Output**:

