**WEEK-2**

**Exercise 2: Assertions in Junit**

**1) JUnit Assertions**

**CODE:**

**MathCal:**

**public** **class** MathCal {

**public** **int** add(**int** a, **int** b) {

**return** a + b;

}

**public** **int** subtract(**int** a, **int** b) {

**return** a - b;

}

**public** **int** multiply(**int** a, **int** b) {

**return** a \* b;

}

**public** **boolean** isPositive(**int** number) {

**return** number > 0;

}

}

**MathCalTest:**

import org.junit.jupiter.api.Test;

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

public class MathCalTest {

@Test

void testAdd() {

MathCal calc = new MathCal();

*assertEquals*(8, calc.add(5, 3), "Addition failed");

}

@Test

void testSubtract() {

MathCal calc = new MathCal();

*assertEquals*(2, calc.subtract(5, 3), "Subtraction failed");

}

@Test

void testMultiply() {

MathCal calc = new MathCal();

*assertEquals*(15, calc.multiply(5, 3), "Multiplication failed");

}

@Test

void testIsPositive() {

MathCal calc = new MathCal();

*assertTrue*(calc.isPositive(10), "Should be positive");

*assertFalse*(calc.isPositive(-2), "Should be negative");

}

@Test

void testNotEquals() {

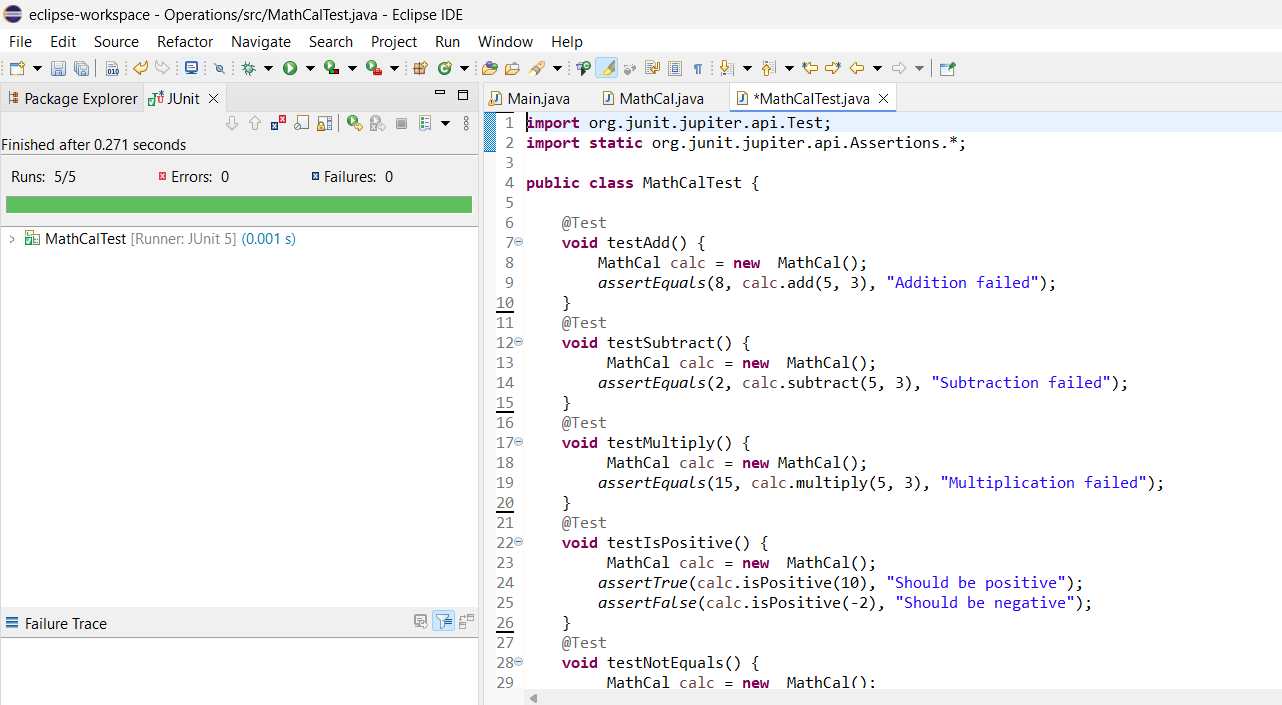
MathCal calc = new MathCal();

*assertNotEquals*(10, calc.add(2, 2), "Should not be equal to 10");

}

}

**OUTPUT:**

****