public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int divide(int a, int b) {

return a / b;

}

}

// File: CalculatorTest.java

import org.junit.jupiter.api.Test;

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

public class CalculatorTest {

Calculator calc = new Calculator();

@Test

void testAdd() {

assertEquals(10, calc.add(7, 3), "Addition should return correct sum");

assertNotEquals(9, calc.add(5, 5), "Should not be equal to 9");

}

@Test

void testDivide() {

assertEquals(2, calc.divide(10, 5));

}

@Test

void testDivideByZeroThrowsException() {

assertThrows(ArithmeticException.class, () -> calc.divide(10, 0));

}

}

OUTPUT:

[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0

[INFO] BUILD SUCCESS