**TDD using JUnit5 and Mockito  
  
Exercise 1: Setting Up Junit  
  
Code:  
  
Calculator.java:**public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int subtract(int a, int b) {

return a - b;

}

}  
**CalculatorTest.java:**import static org.junit.Assert.\*;

import org.junit.Test;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

assertEquals(5, calc.add(2, 3));

}

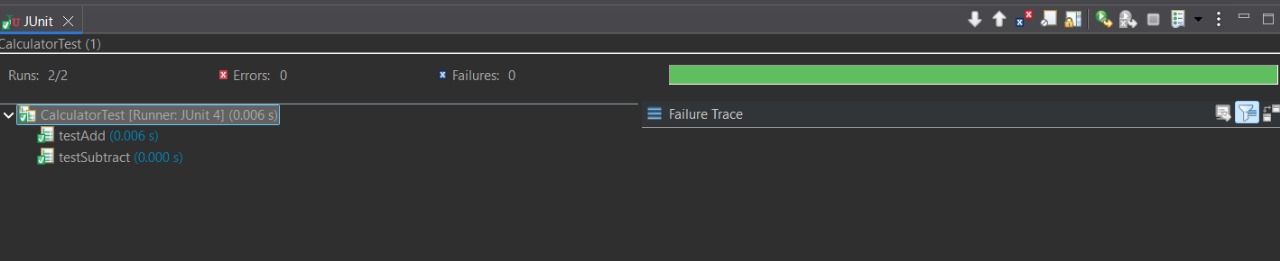
@Test

public void testSubtract() {

Calculator calc = new Calculator();

assertEquals(1, calc.subtract(5, 4));

}

}  
  
**OUTPUT:**

**Exercise 3: Assertions in Junit  
  
Code:**

**AssertionsTest.java:**import static org.junit.Assert.\*;

import org.junit.Test;

public class AssertionsTest {

@Test

public void testAssertions() {

// Assert equals

assertEquals(5, 2 + 3);

// Assert true

assertTrue(5 > 3);

// Assert false

assertFalse(5 < 3);

// Assert null

assertNull(null);

// Assert not null

assertNotNull(new Object());

}

}  
**Output:**