**Exercise 4: Arrange-Act-Assert (AAA) Pattern**

**Code:**

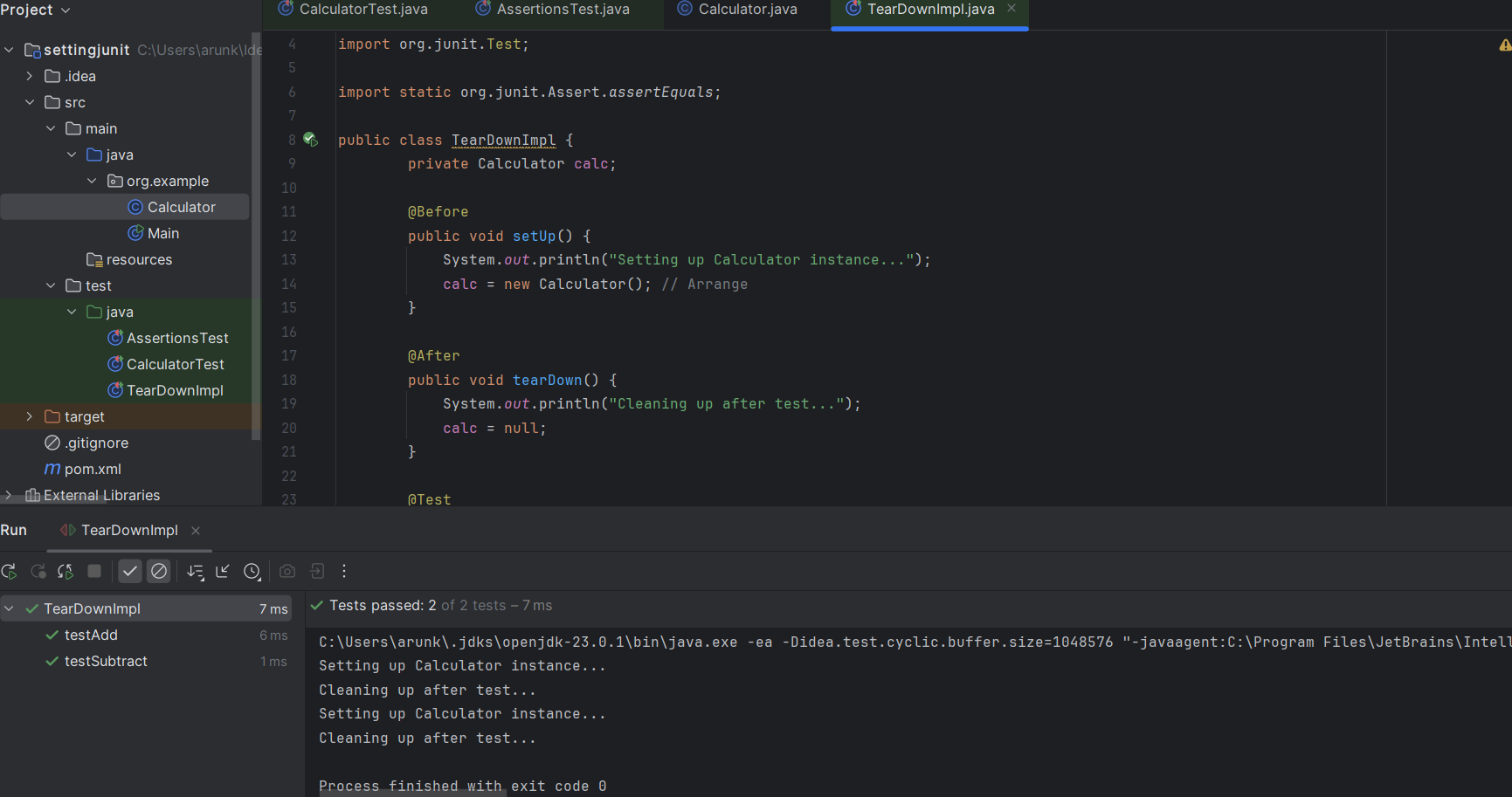
**Calculator.java**

package org.example;  
  
public class Calculator {  
 public int add(int a, int b) {  
 return a + b;  
 }  
 public int subtract(int a, int b) {  
 return a - b;  
 }  
}

**TeadDownImpl.java**

import org.example.Calculator;  
import org.junit.After;  
import org.junit.Before;  
import org.junit.Test;  
  
import static org.junit.Assert.*assertEquals*;  
  
public class TearDownImpl {  
 private Calculator calc;  
  
 @Before  
 public void setUp() {  
 System.*out*.println("Setting up Calculator instance...");  
 calc = new Calculator(); // Arrange  
 }  
  
 @After  
 public void tearDown() {  
 System.*out*.println("Cleaning up after test...");  
 calc = null;  
 }  
  
 @Test  
 public void testAdd() {  
 int result = calc.add(10, 5);  
  
 *assertEquals*("Addition failed", 15, result);  
 }  
  
 @Test  
 public void testSubtract() {  
 int result = calc.subtract(10, 3);  
  
 *assertEquals*("Subtraction failed", 7, result);  
 }  
 }

**OUTPUT:**

****