**Exercise 5.1: Basic Unit Test for a Service Method**

**CODE:**

**CalculatorService Class: -**

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

**CalculatorServiceTest Class: -**

package org.example;  
import org.junit.jupiter.api.Test;  
import static org.junit.jupiter.api.Assertions.\*;  
class CalculatorServiceTest {  
 private final CalculatorService calculatorService=new CalculatorService();  
 @Test  
 public void testServicePositiveNumbers(){  
 int result=calculatorService.add(10,20);  
 *assertEquals*(30,result);  
 System.*out*.println("Result (10+20) is "+result);  
 }  
 @Test  
 public void testServiceNegativeNumbers(){  
 int result=calculatorService.add(-5,-17);  
 *assertEquals*(-22,result);  
 System.*out*.println("Result (-5+-17) is "+result);  
 }  
}

**OUTPUT:**

