Week 03 : Programming Assignment 5

This program is an exercise to call static and non-static methods.

A partial code is given defining two methods, namely sum( ) and multiply ( ).

You have to call these methods to find the sum and product of two numbers.

Complete the code segment as instructed.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	1 2	3\n 2	3\n 2	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2025-02-11, 21:59 IST
Your last recorded submission was :

```
 1 import java.util.Scanner;
 2 class QuestionScope {
 3 int sum(int a, int b){ //non-static method
 4         return a + b;
 5     }
 6 static int multiply(int a, int b){ //static method
 7         return a * b;
 8     }
 9 }
10 public class W03_P5{
11 public static void main( String[] args ) {
12         Scanner sc = new Scanner(System.in);
13     int n1=sc.nextInt();
14     int n2=sc.nextInt();
15     QuestionScope st= new QuestionScope(); // Create an object to call non-static method
16 //Call the method sum() to find the sum of two numbers and store in result1
17 //Call the method multiply() to find the product of two numbers and store in result2
18
19 // Call the method sum() to find the sum of two numbers and store in result1
20     int result1 = st.sum(n1, n2);
21
22     // Call the method multiply() to find the product of two numbers and store in result2
23     int result2 = QuestionScope.multiply(n1, n2);
24 System.out.println(result1);
25   System.out.print(result2);
26 }
27 }
```

Sample solutions (Provided by instructor)

```
 1 import java.util.Scanner;
 2 class QuestionScope {
 3 int sum(int a, int b){ //non-static method
 4         return a + b;
 5     }
 6 static int multiply(int a, int b){ //static method
 7         return a * b;
 8     }
 9 }
10 public class W03_P5{
11 public static void main( String[] args ) {
12         Scanner sc = new Scanner(System.in);
13     int n1=sc.nextInt();
14     int n2=sc.nextInt();
15     QuestionScope st= new QuestionScope(); // Create an object to call non-static method
16 int result1=st.sum(n1,n2); // Call the method
17     int result2=QuestionScope.multiply(n1,n2);    // Create an object to call
18                                     //static method
19 System.out.println(result1);
20   System.out.print(result2);
21 }
22 }
```