

## Java Week 3: Q4

Due on 2020-10-08, 23:59 IST

This program to exercise the call of 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

Test Case 1

Input	Expected Output	Actual Output	Status
1 2	3\n2	3\n2	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-10-08, 22:55 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 Test3{
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
16         //Called the method sum() to find the sum of two numbers.
17         //Called the method multiply() to find the product of two numbers.
18         QuestionScope q = new QuestionScope();
19         //Called the method sum() to find the sum of two numbers.
20         int res_sum, res_mul;
21         res_sum= q.sum(n1,n2);
22         //Called the method multiply() to find the product of two numbers.
23         res_mul= q.multiply(n1,n2);
24
25         System.out.println(res_sum);
26         System.out.print(res_mul);
27     }
28 }
```

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 Test3{
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
16         QuestionScope st = new QuestionScope(); // Create an object to call non-
17                                                     //static method
18         int result1=st.sum(n1,n2); // Call the method
19         int result2=QuestionScope.multiply(n1,n2); // Create an object to call
20                                                     //static method
21
22         System.out.println(result1);
23         System.out.println(result2);
24     }
25 }
26 }
```

### Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

- Lecture 11 : Java Static Scope Rule
- Lecture 12 : Demonstration-V
- Lecture 13 : Inheritance
- Lecture 14 : Demonstration-VI
- Lecture 15 : Information Hiding
- Quiz: Assignment 3
- Java Week 3: Q1
- Java Week 3: Q2
- Java Week 3: Q3
- Java Week 3: Q4
- Java Week 3: Q5
- Feedback For Week 3

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

Week 9 :

Week 10 :

Week 11 :

Week 12 :

Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)