

# Week 03 : Programming Assignment 2

Due on 2025-02-13, 23:59 IST

There are two class cls1 and cls2 which is subclass of cls1. cls1 having a method "add" which add two numbers. Create two method inside cls2 which will take 2 parameters as input i.e. a and b and print the sum , multiplication and sum of their squares i.e (a^2) + (b^2) (name the function task())

(Remember to match the output given exactly, including the spaces and new lines)

(passed with presentation error means you will get full marks)

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	3 5	8\n15\n34	8\n15\n34	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, 21:54 IST

Your last recorded submission was :

```
1 import java.util.Scanner;
2 class cls1
3 {
4     void add(int p,int q)
5     {
6         System.out.println(p+q);
7     }
8 }
9 class cls2 extends cls1
10 {
11     void mul(int a, int b)
12     {
13         System.out.println(a * b);
14     }
15
16     void task(int a, int b)
17     {
18         System.out.print((a * a) + (b * b));
19     }
20 }
21 public class W03_P2{
22     public static void main(String args[])
23     {
24         Scanner sc=new Scanner(System.in);
25
26         cls2 obj=new cls2();
27         int a=sc.nextInt();
28         int b=sc.nextInt();
29         //String tilde=sc.next();
30         obj.add(a,b);
31         obj.mul(a,b);
32         obj.task(a,b);
33     }
34 }
35 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.Scanner;
2 class cls1
3 {
4     void add(int p,int q)
5     {
6         System.out.println(p+q);
7     }
8 }
9 class cls2 extends cls1
10 {
11     void mul(int p,int q)
12     {
13         System.out.println(p*q);
14     }
15     void task(int p,int q)
16     {
17         System.out.print((p*p)+(q*q));
18     }
19 }
20 public class W03_P2{
21     public static void main(String args[])
22     {
23         Scanner sc=new Scanner(System.in);
24
25         cls2 obj=new cls2();
26         int a=sc.nextInt();
27         int b=sc.nextInt();
28         //String tilde=sc.next();
29         obj.add(a,b);
30         obj.mul(a,b);
31         obj.task(a,b);
32     }
33 }
34 }
```