

## Lab 3

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### Assignment-2.

- Write a Java program that demonstrates method overloading by creating a class called Calculator.
  - Add three methods called add().
  - The first add() method should take two int variables as arguments and return their sum as int.
  - The second add() method should take three int variables as arguments and return their sum as int.
  - The third add() method should take two doubles as arguments and return their sum as double.
  - The program should allow the user to display the results of each method.
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```
package lab2;
import java.util.Scanner; //importing scanner class
class calsi
{
    int add(int a, int b)
    {
        return a+b;
    }
    int add(int a, int b, int c)
    {
        return a+b+c;
    }
    double add(double i, double j)
    {
        return i+j;
    }
}
```

```

public class Calculator {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        calsi cl = new calsi(); // creating object for class calsi

        System.out.println("Enter the value of a : ");
        int a = s.nextInt();

        System.out.println("Enter the value of b : ");
        int b = s.nextInt();

        System.out.println("sum of a+b : " + cl.add(a, b));

        System.out.println("Enter the value of c : ");
        int c = s.nextInt();

        System.out.println("sum of a+b+c : " + cl.add(a,b, c));

        System.out.println("Enter the value of i : ");
        double i = s.nextDouble();
        System.out.println("Enter the value of j : ");

        double j = s.nextDouble();

        System.out.println("sum of i+j : " + cl.add(i, j));

        s.close();
    }
}

```

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#### OUTPUT 1.

```

Enter the value of a :
10
Enter the value of b :
200
sum of a+b : 210
Enter the value of c :
30
sum of a+b+c : 240
Enter the value of i :
22
Enter the value of j :
33
sum of i+j : 55.0

```

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## OUTPUT 2

```
Enter the value of a :  
97  
Enter the value of b :  
95  
sum of a+b : 192  
Enter the value of c :  
94  
sum of a+b+c : 286  
Enter the value of i :  
20.02  
Enter the value of j :  
20.002  
sum of i+j : 40.022
```