

- 1) Write a program to overload the method to print that prints sum of n natural numbers when one variable is passed and prints the prime numbers in a given range when 2 parameters are passed.

```
class Overload {
```

```
    void print (int n) {
```

```
        int sum = 0;
```

```
        for (int i = 1; i <= n; i++) {
```

```
            sum = sum + i;
```

```
        }
```

```
        System.out.println("sum of " + n + " natural numbers  
is " + sum);
```

```
    }
```

```
    void print (int m, int n) {
```

```
        System.out.println("Prime numbers in the range  
are ");
```

```
        for (int i = m; i <= n; i++) {
```

```
            int flag = 0;
```

```
            for (int j = 2; j <= n; j++) {
```

```
                if (i % j == 0) {
```

```
                    flag = 1;
```

```
                    break;
```

```
                }
```

```
            }
```

```
            if (flag == 0)
```

```
                System.out.println(i);
```

```
        }
```

```
    }
```

```
}
```

```

class OverloadDemo {
    public static void main(String[] args) {
        Overload o = new Overload();
        o.print(s);
        o.print(7, 13);
    }
}

```

3

3.

2) Output: Sum of 10 natural number is 55

Prime numbers in the range are

5

7

11

13

19.

2) Write a Java program to create a class Grocery that has variables c-name and c-phone. create a method to accept 3 parameters to specify quantity of dal, quantity of pulses and quantity of sugar. the method to return the total price. Display the name, ph-no and total bill of 3 customers.

```

class Grocery {
    String c-name;
    String c-ph;
    double total;
}

```

```

Grocery (String c-name, String c-ph) {
    this.c-name = c-name;
    this.c-ph = c-ph;
}

```

3

```
void calc(double q-dal, double q-pudjee, double q-sugar)
{
    total = q-dal*100 + q-pudjee*80 + sugar*50;
}
```

```
void display()
{
    System.out.println("Name "+" "+" Phone number  
"+" "+" Total");
    System.out.println(c-name+" "+" +c-ph+" "+" +total);
    System.out.println();
}
}
```

```
class CDemo {
```

```
    public static void main (String[] args) {
```

```
        Grocery g1 = new Grocery ("Rama", "8060302010");
```

```
        Grocery g2 = new Grocery ("Shama", "7689632510");
```

```
        Grocery g3 = new Grocery ("Bhama", "9632587412");
```

```
        g1.calc (2, 2, 1);
```

```
        g1.display();
```

```
        g2.calc (3, 5, 2);
```

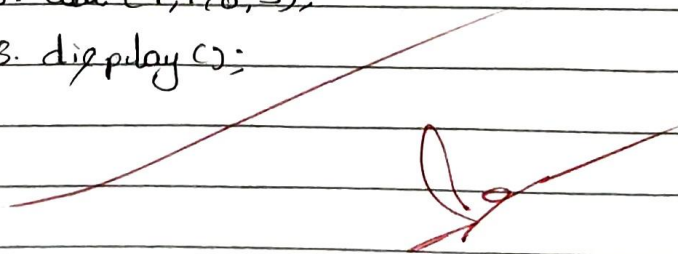
```
        g2.display();
```

```
        g3.calc (1, 1, 0, 5);
```

```
        g3.display();
```

```
    }
```

```
}
```



Output:

Name	phone numbers	Total
Rama	8618372865	410.0

Name	phone numbers	Total
Vijay	9545721582	800

Name	phone numbers	Total
Sid.	9485672838	205

~~Write a java program~~

~~23~~
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