

OBJECT ORIENTED PROGRAMMING LAB**Name: Reshma K S****Roll No:27****Batch: S2 MCA B****Date:24/05/2022****Experiment No.: 16****Aim**

Prepare bill with the given format using calculate method from interface.

Order No.

Date :

Product Id Name Quantity unit price Total

101 A 2 25 50

102 B 1 100 100

Net. Amount 150

Procedure

```
import java.util.Scanner;

interface calc{
    void calculate();
}

class bill implements calc{
    String date,name,p_id;
    int quantity;
    double unit_price,total,namount=0;
    Scanner sc = new Scanner(System.in);
    public void getdata(){
        System.out.println("\nEnter product id:");
        p_id = sc.nextLine();
        System.out.println("Enter product name:");
        name = sc.nextLine();
        System.out.println("Enter the Quantity:");
```

```
        quantity = sc.nextInt();

        System.out.println("Enter the unit price:");
        unit_price = sc.nextDouble();
    }

    public void calculate(){
        total = quantity * unit_price;
    }

    public void display(){
        System.out.println(p_id+"\t\t"+name+"\t\t"+quantity+"\t\t"+unit_price+"\t"+total);
    }
}

public class BillCalc {
    public static void main(String[] args) {
        int n,i;
        double namount=0,t;
        int ran;
        String date;
        t = Math.random() *1000000;
        ran = (int) t;
        Scanner sc = new Scanner(System.in);
        System.out.println("Order no. #"+ran);
        System.out.print("Enter the date:");
        date = sc.nextLine();
        System.out.println("Enter how many products are there:");
        n = sc.nextInt();
        bill ob[] = new bill[n];
        for(i=0;i<n;i++)
            ob[i] = new bill();
        for(i=0;i<n;i++){
```

```
        ob[i].getdata();
        ob[i].calculate();
    }
    System.out.println("Date:"+date);
    System.out.println("Product Id  Name  Quantity  unit price  Total ");
    System.out.println("-----");
    for(i=0;i<n;i++){
        ob[i].display();
        namount += ob[i].total;
    }
    System.out.println("-----");
    System.out.println("\t\t\tNet.Amount\t\t"+ namount);

}

}
```

Output Screenshot

```
D:\>javac BillCalc.java

D:\>java BillCalc
Order no. #679588
Enter the date:10-12-2021
Enter how many products are there:
2

Enter product id:
100
Enter product name:
Pencil
Enter the Quantity:
20
Enter the unit price:
5

Enter product id:
101
Enter product name:
Pen
Enter the Quantity:
50
Enter the unit price:
5
Date:10-12-2021
Product Id  Name    Quantity  unit price  Total
-----
100          Pencil      20         5.0       100.0
101          Pen        50         5.0       250.0
-----
                        Net.Amount      350.0
```