

OBJECT ORIENTED PROGRAMING LAB**Experiment No.: 16****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 30-05-22****Aim**

Prepare a bill using calculate method from interface.

Source Code

```
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 the product id : ");
        p_id = sc.nextLine();
        System.out.println("Enter the 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();
    }

    @Override
    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 Product{
    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.println("Enter the date:");
        date = sc.nextLine();
        System.out.println("Enter the number of products : ");
        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 \tName\t Quantity\t unit price\t 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"+ namount);

    }
}

```

Output Screenshot

```
D:\Java>java Product
Order no. #689857
Enter the date:
12/12/2022
Enter the number of products :
3

Enter the product id :
01
Enter the product name :
Paste
Enter the Quantity :
2
Enter the unit price :
50

Enter the product id :
02
Enter the product name :
Powder
Enter the Quantity :
3
Enter the unit price :
22

Enter the product id :
03
Enter the product name :
Sprite
Enter the Quantity :
1
Enter the unit price :
40
```

```
Date : 12/12/2022
Product Id      Name          Quantity    Unit price    Total
-----
01             Paste           2           50.0    100.0
02             Powder          3           22.0    66.0
03             Sprite          1           40.0    40.0
-----
                        Net Amount    206.0
```
