

OBJECT ORIENTED PROGRAMING LAB**Experiment No.: 16****Name : Susan Sebastian****Roll No : 47****Batch : B****Date : 24-05-22****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

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 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\t"+total);
    }
}

```

```

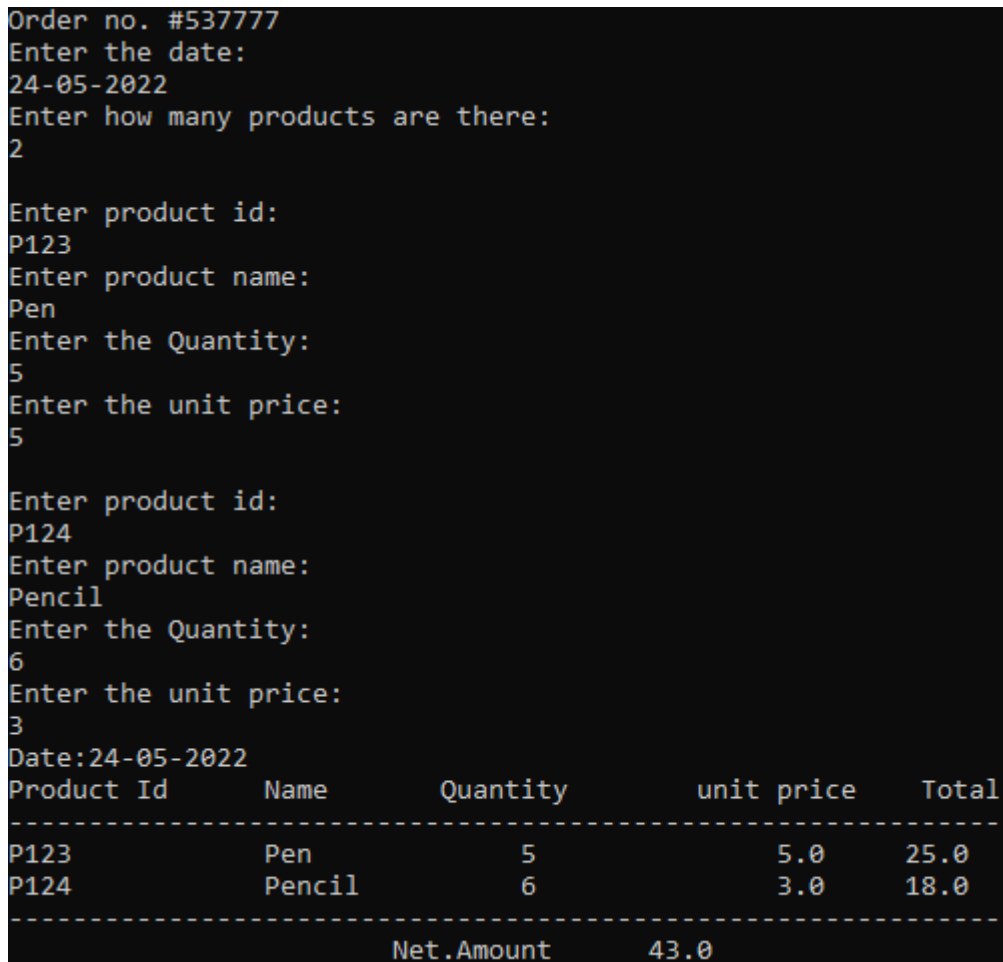
public class CO3_Q7
{
    public static void main(String[] args)
    {
        int n,i;
        double namount=0,t;
        int ran;
        String date;
        t = Math.random() *1000000;
        ran = (int) t;
        Scanner sc = new Scanner(System.in);
        System.out.println("Order no. #"+ran);
        System.out.println("Enter the date:");
        date = sc.nextLine();
        System.out.println("Enter 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 \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



Order no. #537777
Enter the date:
24-05-2022
Enter how many products are there:
2

Enter product id:
P123
Enter product name:
Pen
Enter the Quantity:
5
Enter the unit price:
5

Enter product id:
P124
Enter product name:
Pencil
Enter the Quantity:
6
Enter the unit price:
3

Date:24-05-2022

Product Id	Name	Quantity	unit price	Total
P123	Pen	5	5.0	25.0
P124	Pencil	6	3.0	18.0
Net.Amount			43.0	