

## **OBJECT ORIENTED PROGRAMMING LAB**

### **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

Name: Silvia Thomas

Roll No:38

Batch:RMCA B

Date:24/05/2022

#### **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 Biller  
{  
    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

```
D:\java>javac Biller.java

D:\java>java Biller
Order no. #601006
Enter the date:
02-02-2022
Enter how many products are there:
2

Enter product id:
101
Enter product name:
A
Enter the Quantity:
2
Enter the unit price:
25

Enter product id:
102
Enter product name:
B
Enter the Quantity:
1
Enter the unit price:
100
Date:02-02-2022
Product Id      Name      Quantity      unit price      Total
-----
101             A           2           25.0           50.0
102             B           1          100.0          100.0
-----
                        Net.Amount      150.0
```

