OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 16

<u>Aim</u>

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()
    {
}
```

Name: vismaya mohan

Roll No:54

Batch: B

Date:24/05/2022

```
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'+name+"\t'+quantity+"\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\tNet.Amount\t"+ namount);
```

```
}
}
```

Output

```
C:\Users\Student\Documents>javac Biller.java
C:\Users\Student\Documents>java Biller
Order no. #403570
Enter the date:
10/5/2022
Enter how many products are there:
Enter product id:
Enter product name:
laptop
Enter the Quantity:
Enter the unit price:
50000
Enter product id:
101
Enter product name:
Phone
Enter the Quantity:
Enter the unit price:
20000
Date:10/5/2022
Product Id Name
                         Quantity unit price
                                                              Total

        laptop
        2
        50000.0 100000.0

        Phone
        3
        20000.0 60000.0

101
                 Phone
                          Net.Amount "+
 C:\Users\Student\Documents>
```