OBJECT ORIENTED PROGRAMMING LAB

Name: Manya Madhu

Roll No: 17

Batch: S2 RMCA B

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Experiment No: 9

Aim

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

Procedure:

```
import java.util.*;
import java.time.format.DateTimeFormatter;
import java.time.LocalDateTime;
interface calculate
{
   int calc(int Quanlity,int unit_Price);
}
class Order implements calculate
{
   int Productid,Quanlity,unit_Price;
   String Name;
   public Order(int Productid,String Name,int Quanlity,int unit_Price)
   {
     this.Productid=Productid;
     this.Name=Name;
     this.Quanlity=Quanlity;
     this.unit_Price=unit_Price;
   }
   public int calc(int Quanlity,int unit_Price)
   {
      int Total=unit_Price*Quanlity;
      return Total;
```

```
    }
     public void display()
    {
    int Total;
    int Net_Amount=0;
    Total=calc(Quanlity,unit_Price);
    System.out.println("\t" + Productid + "\t\t" + Name + "\t\t" + Quanlity + "\t\t" + unit_Price + "\t\t" +
Total);
}
}
public class Bill
{
    public static void main(String[] args)
    {   int i,n;
       int Total;
       int Net_Amount=0;
        int Productid,Quanlity,unit_Price;
        String Name,Ono;
        Scanner in =new Scanner(System.in);
        DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd HH:mm:ss");
         LocalDateTime now = LocalDateTime.now();
        System.out.println("Enter the order no");
        Ono=in.nextLine();
        System.out.println("enter the number of product");
        n=in.nextInt();
         Order Obj[]=new Order[n];
        for(i=0;i<n;i++)
        {
            System.out.println("Enter the Product id");
            Productid=in.nextInt();
            System.out.println("Enter the Name");
            Name=in.nextLine() + in.nextLine();
```

```
            System.out.println("Enter the  Quanlity ");
           Quanlity=in.nextInt();
           System.out.println("Enter the unit price");
           unit_Price=in.nextInt();
           Obj[i] =new Order(Productid,Name,Quanlity,unit_Price);
           Total= Obj[i].calc(Quanlity,unit_Price);
           Net_Amount=Net_Amount+Total;
       }
         System.out.println("Order no: " +Ono);
         System.out.println( "Date : " +dtf.format(now));
        System.out.println(" \t Productid \t Name \t Quanlity \t unit_Price \t Total \t ");

System.out.println("_____
_____");
       for(i=0;i<n;i++)
       {
            Obj[i].display();
       }

System.out.println("_____
_____");
      System.out.println("\t\t\t\t\t    Net Amount="+  Net_Amount);


   }
}
```

Output:

```
C:\Users\student\Documents\MM>javac Bill.java

C:\Users\student\Documents\MM>java Bill
Enter the order no
101
enter the number of product
5
Enter the Product id
10004
Enter the Name
Book
Enter the  Quanlity
100
Enter the unit price
50
Enter the Product id
10005
Enter the Name
Pen
Enter the  Quanlity
1000
Enter the unit price
10
Enter the Product id
10006
Enter the Name
Pencil
Enter the  Quanlity
1000
Enter the unit price
5
Enter the Product id
10007
Enter the Name
Bag
Enter the  Quanlity
50
Enter the unit price
1000
```

```
Enter the Product id
10008
Enter the Name
Box
Enter the  Quanlity
50
Enter the unit price
100
Order no: 101
Date : 2022/07/04 23:16:41
        Productid       Name    Quanlity        unit_Price      Total
_____________________________________________________________________________
        10004           Book            100             50              5000
        10005           Pen             1000            10              10000
        10006           Pencil          1000            5               5000
        10007           Bag             50              1000            50000
        10008           Box             50              100             5000
_____________________________________________________________________________
                                        Net Amount=75000
```