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**Batch: MCA-B**

**Date: 31-05-2022**

**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

**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 Screenshot**

