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**Roll No:52**

**Batch:B**

**Date:02-04-22**

**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

**Program:**

import java.util.Scanner;

interface calculation{

void calculate();

}

class billcalculation implements calculation{

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 Bill{

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.print("Please enter the date:");

date = sc.nextLine();

System.out.println("Enter the number of purchased product:");

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 Name Quantity unit price 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\t\tNet.Amount\t\t"+ namount);

}

}

**OUTPUT:**

