

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
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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,amount=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(){
```

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Roll No: 18

Batch: S2 RMCA B

Date: 24-05-2022

```

        System.out.println(p_id+"\t\t"+name+"\t\t"+quantity+"\t\t"+unit_price+"\t"+total);
    }
}

public class BillInterface {
    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("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  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\t\tNet.Amount\t\t"+ namount);

    }
}

```

Output Screenshot

```
Enter the date:24-05-2022
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:24-05-2022
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
```