

OBJECT ORIENTED PROGRAMMING LAB**Name: Justin V Kalappura****Roll No:10****Batch: MCA B****Date:30-05-2022****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.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()
    {
        System.out.print("\nEnter product id:");
        p_id = sc.nextLine();
        System.out.print("Enter product name:");
        name = sc.nextLine();
        System.out.print("Enter the Quantity:");
```

```
        quantity = sc.nextInt();

        System.out.print("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\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("\nOrder no: #"+ran);

        System.out.print("Enter the date:");

        date = sc.nextLine();

        System.out.print("Enter how many products are there for the bill:");

        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("\n\nDate:"+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\t Net.Amount\t\t\t\t\t "+ namount);
}
}

```

Output Screenshot:

```

C:\Users\Student\Desktop\Just-in Regular>javac BillInterface.java
C:\Users\Student\Desktop\Just-in Regular>java BillInterface
Order no: #315063
Enter the date:12/2/22
Enter how many products are there for the bill:2

Enter product id:1
Enter product name:Steelsink
Enter the Quantity:1
Enter the unit price:1

Enter product id:2
Enter product name:Washbasin
Enter the Quantity:2
Enter the unit price:2

Date:12/2/22
Product_Id    Name            Quantity        Unit_price        Total
-----
1             Steelsink        1              1.0              1.0
2             Washbasin        2              2.0              4.0
-----
                        Net.Amount              5.0

```