

## 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

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Roll No:38

Batch:RMCA B

Date:24/05/2022

#### 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.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();  
}
```

```
@Override
```

```
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 Biller  
{  
    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.println("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 \tName\t Quantity\t unit price\t 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\tNet.Amount\t"+ namount);
```

```
}
```

```
}
```