

3)

Bill and discount.

```
import java.util.Scanner;
```

```
class bill
```

```
{
```

```
public static void main (String args [] )
```

```
{
```

```
Scanner s = new Scanner (System.in);
```

```
SOP ("No of diff item purchased");
```

```
int n = s.nextInt();
```

```
int [ ] item;
```

```
double [ ] rate;
```

```
item = new int [n];
```

```
rate = new double [n];
```

```
double total = 0.0; double disc = 0.0; double
```

```
finalamt = 0.0
```

```
for (int i = 1; i < n; i++)
```

```
{
```

```
SOP ("Enter price of item" + i + " purchased");
```

```
rate [i] = s.nextDouble();
```

```
}
```

```
for (int i = 1; i < n; i++)
```

```
{
```

```
SOP ("Enter no of item" + i + " purchased");
```

```
item [i] = s.nextInt();
```

```
}
```

```
for (int i = 1; i < n; i++)
```

```
{
```

```
total = total + (item [i] * rate [i]);
```

```
}
```

```
if (total >= 10000)
```

```
{
```

```
disc = (0.05) * total;
```

```
final amt = total - disc;
```

else if ($\text{total} \geq 7500$ & $\text{total} < 10000$)

$$\text{disc} = (0.03) * \text{total};$$

$$\text{finalamt} = \text{total} - \text{disc};$$

else if ($\text{total} \geq 5000$ & $\text{total} < 7500$)

$$\text{disc} = (0.02) * \text{total};$$

$$\text{finalamt} = \text{total} - \text{disc};$$

else {

$$\text{disc} = 0.0;$$

$$\text{finalamt} = \text{total};$$

SOP ("The total bill is " + total);

SOP ("The discount is " + disc);

SOP ("The final bill is " + finalamt);

}

}

```
import java.util.Scanner;
class bill
{
    public static void main(String args[])
    {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the number of different item purchased");
        int n=s.nextInt();
        int[] item;
        double[] rate;
        item=new int[n];
        rate= new double[n];
        double total=0.0;
        double disc=0.0;
        double finalamt=0.0;
        for(int i=1;i<n;i++)
        {
            System.out.println("Enter the number of item"+i+" purchased");
            item[i]=s.nextInt();
        }
        for(int i=1;i<n;i++)
        {
            System.out.println("Enter the price of item"+i+" purchased");
            rate[i]=s.nextDouble();
        }
        for(int i=1;i<n;i++)
        {
            total=total+(item[i]*rate[i]);
        }
        if(total>=10000)
        {
            disc=total*0.05;
            finalamt=total-disc;
            System.out.println("Total amount is "+finalamt);
        }
        else
            System.out.println("Total amount is "+total);
    }
}
```

```
        }
    else if(total>=7500 && total <10000)
    {
        disc=(0.03*total);
        finalamt=total-disc;
    }
else if(total>=5000 && total <7500)
{
    disc=(0.02*total);
    finalamt=total-disc;
}
else
{
    disc=0.0;
    finalamt=total;
}
System.out.println("THE TOTAL BILL IS =" +total);
System.out.println("THE DISCOUNT IS =" +disc);
System.out.println("THE FINAL BILL IS =" +finalamt);
}
```

```
c:\JAVA\bin>javac billarray.java
c:\JAVA\bin>java bill
Enter the number of different item purchased
5
Enter the number of item1 purchased
23
Enter the number of item2 purchased
43
Enter the number of item3 purchased
56
Enter the number of item4 purchased
43
Enter the price of item1 purchased
45
Enter the price of item2 purchased
12
Enter the price of item3 purchased
345
Enter the price of item4 purchased
4345
THE TOTAL BILL IS =207706.0
THE DISCOUNT IS =10385.30000000001
THE FINAL BILL IS =197320.7
```