/*1.Write a java application to accept company name, type and m.r.p of pen, check and display message to buy pen of company "Cello" whose price is more than Rs. 50/- and less than Rs. 100/- otherwise look for any other company whose type is ball pen. */

```java
import java.util.Scanner;

class BuyPen{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

System.out.println();

System.out.print("Enter company name ::");

String compName=s.nextLine().toUpperCase();

//System.out.println(compName);

if(compName.equals("CELLO")){

System.out.print("Enter M.R.P. of pen ::");

double mrp=s.nextDouble();

//System.out.println(mrp);

 if(mrp<=50)

 System.out.println("Pen not  bought.");

 else

   if(mrp>=100)

   System.out.println("Pen not bought.");

    else

    System.out.println("Pen bought.");

}else{

System.out.print("Enter type of pen ::");
```

```java
String type=s.nextLine().toUpperCase();

//System.out.println(type);

  if(type.equals("BALL"))

   System.out.println("Pen bought.");

  else

   System.out.println("Pen not bought.");

}

System.out.println("=================");
```

}**//Close of main**

}**//Close of class**

//OUTPUT

Enter company name ::CELLO

Enter M.R.P. of pen ::25.0

Pen not bought.

=================

Enter company name ::CELLO

Enter M.R.P. of pen ::51.0

Pen bought.

=================

Enter company name ::CELLO

Enter M.R.P. of pen ::100.0

Pen not bought.

==================

Enter company name ::LINC

Enter type of pen ::BALL

Pen bought.

==================

Enter company name ::PARKER

Enter type of pen ::FOUNTAIN

Pen not bought.

==================

/*2.Write a java application to create application software for a Tv shop offering puja discount on purchase of tv as per the chart given below:-

TV TYPE   ------------   Discount on M.R.P.

LCD   30%

                    [Size(in inches)]

                    24"   32"

LED   15%   20%

Calculate and print the bill in the following fashion as 1% vat is to be paid by customer on getting bill:-

======Bill/Invoice Details====dated:.....

Tv type   :...........

optional--**Size in inches** :...........

M.R.P. in Rs. :...........

Discount rate in percentage :........%

Discount amount in Rs. :...........

Payable amount in Rs. :...........

1% VAT in Rs. :...........

Net bill amount in Rs. : ....

======================================= */

//Method 1

```java
import java.util.*;

class TvShopBill{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

double dist,pamt,vat,net,rate;

dist=pamt=vat=net=rate=0.0;

int size=0;

String type="";

boolean flag=true;

System.out.println();

System.out.print("Enter M.R.P. of tv        ::");

double mrp=s.nextDouble();
```

```java
//System.out.println(mrp);

if(mrp>0){

System.out.print("Enter Tv type as LCD/LED ::");

s.nextLine();

type=s.nextLine().toUpperCase();

//System.out.println(type);

if(type.equals("LCD"))

rate=30.0;

else if(type.equals("LED")){

System.out.print("Enter size of tv as 24\"/32\"        ::");

size=s.nextInt();

//System.out.println(size);

if(size==24)

rate=15.0;

else if(size==32)

rate=20.0;

else{

flag=false;

System.out.println("Wrong size of Tv entered,try again !");}

}else{

flag=false;

System.out.println("Invalid Tv type found,try again !");}

}else{

flag=false;

System.out.println("M.R.P. of Tv entered is wrong,try again !");}
```

```java
if(flag){

dist=mrp*rate/100;

pamt=mrp-dist;

vat=pamt*1/100;

net=pamt+vat;

System.out.println("=======Bill/Invoice Details====dated:"+new Date());

System.out.println("Tv type                    :"+type);

if(type.equals("LED"))

System.out.println("Size of tv                 :"+size);

System.out.println("M.R.P. of Tv in Rs.            :"+mrp);

System.out.println("Discount in percentage  :"+rate+"%");

System.out.println("Discount amount in Rs.  :"+dist);

System.out.println("----------------------------------------------------");

System.out.println("Payable amount in Rs.    :"+pamt);

System.out.println("1% VAT in Rs.             :"+vat);

System.out.println("----------------------------------------------------");

System.out.println("Net Bill amount in Rs.    :"+net);

System.out.println("=========================================");

}//Close of if(flag)

}//Close of main

}//Close of class
```

//OUTPUT

Enter M.R.P. of tv   ::25000.0

Enter Tv type as LCD/LED   ::LCD

=======Bill/Invoice Details====dated:Fri Jan 15 09:49:49 IST 2016

Tv type	:LCD
M.R.P. of Tv in Rs.	:25000.0
Discount in percentage	:30.0%
Discount amount in Rs.	:7500.0

Payable amount in Rs.	:17500.0
1% VAT in Rs.	:175.0

Net Bill amount in Rs.	:17675.0

==

Enter M.R.P. of tv	::40000.0
Enter Tv type as LCD/LED	::LED
Enter size of tv as 24"/32"	::32

=======Bill/Invoice Details====dated:Fri Jan 15 09:50:18 IST 2016

Tv type	:LED
Size of tv	:32
M.R.P. of Tv in Rs.	:40000.0
Discount in percentage	:20.0%
Discount amount in Rs.	:8000.0

Payable amount in Rs.	:32000.0
1% VAT in Rs.	:320.0

Net Bill amount in Rs.   :32320.0

===

/*2.Write a java application to create application software for a Tv shop offering puja discount on purchase of tv as per the chart given below:-

TV TYPE   ------------   Discount on M.R.P.

LCD   30%

[Size(in inches)]

24"   32"

LED   15%   20%

Calculate and print the bill in the following fashion as 1% vat is to be paid by customer on getting bill:-

=======Bill/Invoice Details====dated:.....

Tv type   :...........

optional--Size in inches   :...........

M.R.P. in Rs.   :...........

Discount rate in percentage :........%

Discount amount in Rs.   :...........

Payable amount in Rs.   :...........

1% VAT in Rs.   :...........

```
                 -----------------------------------------------------

                 Net bill amount in Rs.        : ...........

                 =========================================            */
```

//Method 2

```java
import java.util.*;

class TvShopInvoice{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

double mrp,dist,pamt,vat,net,rate;

mrp=dist=pamt=vat=net=rate=0.0;

int size=0;

boolean check=true;

System.out.println();

System.out.print("Enter Tv type as LCD/LED ::");

String type=s.nextLine().toUpperCase();

//System.out.println(type);

if(type.equals("LCD"))

rate=30.0;

else if(type.equals("LED")){

System.out.print("Enter size of tv as 24\"/32\"      ::");

size=s.nextInt();

//System.out.println(size);

if(size==24)

rate=15.0;
```

```java
else if(size==32)

rate=20.0;

else{

check=false;

System.out.println("Wrong size of Tv entered,try again !");}

}else{

check=false;

System.out.println("Invalid Tv type found,try again !");}

if(check){

System.out.print("Enter M.R.P. of tv           ::");

mrp=s.nextDouble();

//System.out.println(mrp);

if(mrp>0){

dist=mrp*rate/100;

pamt=mrp-dist;

vat=pamt*1/100;

net=pamt+vat;

System.out.println("=======Bill/Invoice Details====dated:"+new Date());

System.out.println("Tv type                    :"+type);

if(type.equals("LED"))

System.out.println("Size of tv                 :"+size);

System.out.println("M.R.P. of Tv in Rs.              :"+mrp);

System.out.println("Discount in percentage  :"+rate+"%");

System.out.println("Discount amount in Rs.  :"+dist);

System.out.println("-------------------------------------------------");
```

```java
System.out.println("Payable amount in Rs.    :"+pamt);

System.out.println("1% VAT in Rs.              :"+vat);

System.out.println("---------------------------------------------------");

System.out.println("Net Bill amount in Rs.    :"+net);

System.out.println("=======================================");

}//Close of if(mrp>0)

else

System.out.println("M.R.P. of Tv entered is wrong,try again !");

}//Close of if(check)

}//Close of main

}//Close of class
```

//OUTPUT

Enter Tv type as LCD/LED::LCD

Enter M.R.P. of tv   ::35000.0

=======Bill/Invoice Details====dated:Fri Jan 15 12:15:18 IST 2016

Tv type   :LCD

M.R.P. of Tv in Rs.   :35000.0

Discount in percentage   :30.0%

Discount amount in Rs.   :10500.0

Payable amount in Rs.   :24500.0

1% VAT in Rs.   :245.0

Net Bill amount in Rs.   :24745.0

```
=====================================

Enter Tv type as LCD/LED::LED

Enter size of tv as 24"/32"      ::24

Enter M.R.P. of tv          ::55000.0

======Bill/Invoice Details====dated:Fri Jan 15 12:15:32 IST 2016

Tv type                :LED

Size of tv             :24

M.R.P. of Tv in Rs.    :55000.0

Discount in percentage :15.0%

Discount amount in Rs. :8250.0

----------------------------------------------------

Payable amount in Rs.  :46750.0

1% VAT in Rs.          :467.5

----------------------------------------------------

Net Bill amount in Rs. :47217.5

=====================================
```

/*3.Write a java application to create application software for an A/C shop offering OffSeason discount on purchase of A/C as per the chart given below:-

AC type	-----------------	Discount on M.R.P.
Window		15%

[Capacity(in ton)]

1   2

SPLIT	20%	25%

Calculate and print the bill in the following fashion as 1% vat is to be paid by customer on getting bill.

========Bill/Invoice Details====dated:.................

AC type	::............
optional--Capacity in tones	::............
M.R.P. in Rs.	::............
Discount rate in percentage	::.........%
Discount amount in Rs.	::............

Payable amount in Rs.	::............
1%vat in Rs.	::............

| Net bill amount in Rs. | ::............ | */ |

//Method 1

```java
import java.util.*;
class AcShopBill{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
double dist,pamt,vat,net,rate;
dist=pamt=vat=net=rate=0.0;
int cpty=0;
String type="";
```

```java
boolean flag=true;

System.out.println();

System.out.print("Enter M.R.P. of A/C                    ::");

double mrp=s.nextDouble();

//System.out.println(mrp);

if(mrp>0){

System.out.print("Enter A/C type as Window/Split        ::");

s.nextLine();

type=s.nextLine().toUpperCase();

//System.out.println(type);

if(type.equals("WINDOW"))

rate=15.0;

else if(type.equals("SPLIT")){

System.out.print("Enter capacity in ton as 1/2          ::");

cpty=s.nextInt();

//System.out.println(cpty);

if(cpty==1)

rate=20.0;

else if(cpty==2)

rate=25.0;

else{

flag=false;

System.out.println("Invalid capacity entered,try again !");}

}else{

flag=false;
```

```java
System.out.println("Wrong A/C type entered,try again !");}

}else{

flag=false;

System.out.println("M.R.P. entered is wrong,try again !");}

if(flag){

dist=mrp*rate/100;

pamt=mrp-dist;

vat=pamt*1/100;

net=pamt+vat;

System.out.println("========Bill/Invoice Details====dated:"+new Date());

System.out.println("A/C type                    :"+type);

if(type.equals("SPLIT"))

System.out.println("Capacity of A/C in ton   :"+cpty);

System.out.println("M.R.P. in Rs.              :"+mrp);

System.out.println("Discount in percentage  :"+rate+"%");

System.out.println("Discount amount in Rs.  :"+dist);

System.out.println("------------------------------------------------------");

System.out.println("Payable amount in Rs.   :"+pamt);

System.out.println("1% VAT in Rs.              :"+vat);

System.out.println("---------------------------------------------------------");

System.out.println("Net Bill in Rs.              :"+net);

System.out.println("======================================");

}//Close of if(flag)

}//Close of main

}//Close of class
```

//OUTPUT

Enter M.R.P. of A/C   ::20000.0

Enter A/C type as Window/Split   ::WINDOW

=======Bill/Invoice Details====dated:Fri Jan 15 12:45:30 IST 2016

A/C type   :WINDOW

M.R.P. in Rs.   :20000.0

Discount in percentage   :15.0%

Discount amount in Rs.   :3000.0

Payable amount in Rs.   :17000.0

1% VAT in Rs.   :170.0

Net Bill in Rs.   :17170.0

=======================================

Enter M.R.P. of A/C   ::25000.0

Enter A/C type as Window/Split   ::SPLIT

Enter capacity in ton as 1/2   ::2

=======Bill/Invoice Details====dated:Fri Jan 15 12:45:39 IST 2016

A/C type   :SPLIT

Capacity of A/C in ton   :2

M.R.P. in Rs.   :25000.0

Discount in percentage   :25.0%

Discount amount in Rs.   :6250.0

Payable amount in Rs.   :18750.0

1% VAT in Rs.   :187.5

Net Bill in Rs.   :18937.5

==

/*3.Write a java application to create application software for an A/C shop offering OffSeason discount on purchase of A/C as per the chart given below:-

AC type   ------------------   Discount on M.R.P.

Window   15%

[Capacity(in ton)]

1   2

SPLIT   20%   25%

Calculate and print the bill in the following fashion as 1% vat is to be paid by customer on getting bill.

========Bill/Invoice Details====dated:................

AC type   ::............

optional--Capacity in tones   ::............

M.R.P. in Rs.   ::............

Discount rate in percentage   ::.........%

Discount amount in Rs.   ::............

Payable amount in Rs.   ::............

          1%vat in Rs.   ::............

          Net bill amount in Rs.   ::............   ***/**

//Method 2

```java
import java.util.*;

class AcShopInvoice{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

double mrp,dist,pamt,vat,net,rate;

mrp=dist=pamt=vat=net=rate=0.0;

int cpty=0;

boolean flag=true;

System.out.println();

System.out.print("Enter A/C type as Window/Split        ::");

String type=s.nextLine().toUpperCase();

//System.out.println(type);

if(type.equals("WINDOW"))

rate=15.0;

else if(type.equals("SPLIT")){

System.out.print("Enter capacity in ton as 1/2          ::");

cpty=s.nextInt();

//System.out.println(cpty);

if(cpty==1)
```

```java
rate=20.0;

else if(cpty==2)

rate=25.0;

else{

flag=false;

System.out.println("Invalid capacity entered,try again !");}

}else{

flag=false;

System.out.println("Wrong A/C type entered,try again !");}

if(flag){

System.out.print("Enter M.R.P. of A/C                    ::");

mrp=s.nextDouble();

//System.out.println(mrp);

if(mrp>0){

dist=mrp*rate/100;

pamt=mrp-dist;

vat=pamt*1/100;

net=pamt+vat;

System.out.println("=======Bill/Invoice Details====dated:"+new Date());

System.out.println("A/C type                        :"+type);

if(type.equals("SPLIT"))

System.out.println("Capacity of A/C in ton          :"+cpty);

System.out.println("M.R.P. in Rs.                   :"+mrp);

System.out.println("Discount in percentage          :"+rate+"%");

System.out.println("Discount amount in Rs.          :"+dist);
```

```
System.out.println("-----------------------------------------------------------");

System.out.println("Payable amount in Rs.           :"+pamt);

System.out.println("1% VAT in Rs.                   :"+vat);

System.out.println("-----------------------------------------------------------");

System.out.println("Net Bill in Rs.                 :"+net);

System.out.println("=====================================");

}//Close of if(mrp>0)

else

System.out.println("M.R.P. entered is wrong,try again !");
```

}**//Close of if(flag)**

}**//Close of main**

}**//Close of class**

//OUTPUT

Enter A/C type as Window/Split   ::SPLIT

Enter capacity in ton as 1/2   ::1

Enter M.R.P. of A/C   ::25000.0

========Bill/Invoice Details====dated:Fri Jan 15 13:00:01 IST 2016

A/C type   :SPLIT

Capacity of A/C in ton   :1

M.R.P. in Rs.   :25000.0

Discount in percentage   :20.0%

Discount amount in Rs.   :5000.0

Payable amount in Rs.   :20000.0

1% VAT in Rs.   :200.0

Net Bill in Rs.   :20200.0

===

Enter A/C type as Window/Split   ::WINDOW

Enter M.R.P. of A/C   ::18000.0

=======Bill/Invoice Details====dated:Fri Jan 15 13:00:11 IST 2016

A/C type   :WINDOW

M.R.P. in Rs.   :18000.0

Discount in percentage   :15.0%

Discount amount in Rs.   :2700.0

Payable amount in Rs.   :15300.0

1% VAT in Rs.   :153.0

Net Bill in Rs.   :15453.0

===