

/*1. Write a java application to accept mnth no., check and display the corresponding month name. */

```
import java.util.Scanner;

class CheckMonth{

    public static void main(String args[]){

        Scanner s=new Scanner(System.in);

        System.out.println();

        System.out.print("Enter month no. ::");

        int month=s.nextInt();

        //System.out.println(month);

        switch(month){

            case 1: System.out.println("January");

                break;

            case 2: System.out.println("February");

                break;

            case 3: System.out.println("March");

                break;

            case 4: System.out.println("April");

                break;

            case 5: System.out.println("May");

                break;

            case 6: System.out.println("June");

                break;

            case 7: System.out.println("July");

                break;
```

```
case 8:System.out.println("August");  
  
break;  
  
case 9:System.out.println("September");  
  
break;  
  
case 10:System.out.println("October");  
  
break;  
  
case 11:System.out.println("November");  
  
break;  
  
case 12:System.out.println("December");  
  
break;  
  
default:System.out.println("Invalid month no. entered, try again!");  
  
//Close of Switch  
  
//Close of main  
  
//Close of class
```

//OUTPUT

Enter month no. ::5

May

Enter month no. ::11

November

Enter month no. ::1

January

/*2. Write a java application to accept mnth no., check and display the corresponding season name to which month belongs.

Month No.	-----	Season Name
11,12,1,2	-----	Winter Season
3,4,5,6	-----	Summer Season
7,8,9,10	-----	Rainy Season

***/**

```
import java.util.Scanner;

class CheckSeason{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

System.out.println();

System.out.print("Enter month no. ::");

int month=s.nextInt();

//System.out.println(month);

switch(month){

case 11:

case 12:

case 1:

case 2: System.out.println("Winter Season");

break;

case 3:

case 4:

case 5:

case 6: System.out.println("Summer Season");
```

```
break;

case 7:

case 8:

case 9:

case 10: System.out.println("Rainy Season");

break;

default: System.out.println("Month no. entered is invalid, try again!");

} //Close of Switch

} //Close of main

} //Close of class
```

//OUTPUT

Enter month no. ::5

Summer Season

Enter month no. ::11

Winter Season

Enter month no. ::9

Rainy Season

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

Publisher ----- Discount in percentage on M.R.P.

BPB -----

30%

Fundamental(1) --- Web Desiging(2) --- Language(3)

TMH -----

15%

20%

30%

Calculate and print the Bill/Invoice in the following format as 1% VAT is to be paid by the consumer on getting bill:-

= = = Bill/Invoice Details = = = Current Date&Time

Publisher Name :.....

optional- Book type as 1/2/3 :.....

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

Discount rate in Percentage :.....

Discount Amount in Rs. :.....

Payable Amount in Rs. :.....

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

Net Bill/Invoice Amount in Rs. :..... */

//Method 1

```
import java.util.*;
```

```
class Bill{
```

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

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

```
boolean check=true;
```

```
String pub="",type="";

double rate,dist,pamt,vat,net;

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

System.out.println();

System.out.print("Enter M.R.P. in Rs.          ::");

double mrp=s.nextDouble();

//System.out.println(mrp);

if(mrp>0){

System.out.print("Enter Publisher of Books          ::");

s.nextLine();

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

//System.out.println(pub);

if(pub.equals("BPB"))

rate=30.0;

else if(pub.equals("TMH")){

System.out.print("Enter Book Type as Fundamental/Web Design/Language ::");

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

//System.out.println(type);

switch(type.charAt(0)){

case'F':

case'f':rate=15.0;

break;

case'W':

case'w':rate=20.0;

break;
```

```

case'L':

case'I':rate=25.0;

break;

default:check=false;

System.out.println("Wrong book type inputed, try again!");

} //Close of Switch

}else{

System.out.println("Publisher of Book entered is wrong, try again!");

check=false;

}

}else{

check=false;

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

}

if(check){

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("Publisher Name           :"+pub);

if(pub.equals("TMH"))

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

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

System.out.println("Discount rate 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 Amount in Rs.      :"+vat);

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

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

} //Close of if

} //Close of main

} //Close of class

```

//OUTPUT

```

Enter M.R.P. in Rs.      ::1000.0

Enter Publisher of Books      ::TMH

Enter Book Type as Fundamental/Web Design/Language ::LANGUAGE

== = Bill/Invoice Details == = Dated :Mon Jan 11 00:15:56 IST 2016

Publisher Name      :TMH

Book type      :LANGUAGE

M.R.P. in Rs.      :1000.0

Discount rate in Percentage      :25.0%

Discount Amount in Rs.      :250.0

-----

Payable Amount in Rs.      :750.0

1% VAT Amount in Rs.      :7.5

-----

Net Bill/Invoice Amount in Rs. :757.5

```


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

Publisher ----- Discount in percentage on M.R.P.

BPB ----- 30%

Fundamental(1) --- Web Desiging(2) --- Language(3)

TMH ----- 15% 20% 30%

Calculate and print the Bill/Invoice in the following format as 1% VAT is to be paid by the consumer on getting bill:-

= = = Bill/Invoice Details = = = Current Date&Time

Publisher Name :.....

optional- Book type as 1/2/3 :.....

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

Discount rate in Percentage :.....

Discount Amount in Rs. :.....

Payable Amount in Rs. :.....

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

Net Bill/Invoice Amount in Rs. :..... */

//Method 2

import java.util.*;

```
class Invoice{  
    public static void main (String args[]){  
        Scanner s=new Scanner(System.in);  
        boolean check=true;  
        int type=0;  
        String pub="";  
        double rate,dist,pamt,vat,net;  
        rate=dist=pamt=vat=net=0.0;  
        System.out.println();  
        System.out.print("Enter M.R.P. in Rs.      ::");  
        double mrp=s.nextDouble();  
        //System.out.println(mrp);  
        if(mrp>0){  
            System.out.print("Enter Publisher of Books      ::");  
            s.nextLine();  
            pub=s.nextLine().toUpperCase();  
            //System.out.println(pub);  
            if(pub.equals("BPB"))  
                rate=30.0;  
            else if(pub.equals("TMH")){  
                System.out.print("Enter Book Type as 1/2/3      ::");  
                type=s.nextInt();  
                //System.out.println(type);  
                switch(type){  
                    case 1:rate=15.0;
```

```
break;

case 2:rate=20.0;

break;

case 3:rate=25.0;

break;

default:check=false;

System.out.println("Wrong book type inputed, try again!");

} //Close of Switch

}else{

System.out.println("Publisher of Book entered is wrong, try again!");

check=false;

}

}else{

check=false;

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

}

if(check){

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("Publisher Name           :"+pub);

if(pub.equals("TMH"))

System.out.println("Book type as 1/2/3           :"+type);
```

```

System.out.println("M.R.P. in Rs.           :"+mrp);
System.out.println("Discount rate 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 Amount in Rs.           :"+vat);
System.out.println("-----");
System.out.println("Net Bill/Invoice Amount in Rs. :"+net);
System.out.println("=====");

} //Close of if
} //Close of main
} //Close of class

```

//OUTPUT

```

Enter M.R.P. in Rs.           ::1000.0
Enter Publisher of Books      ::BPB

== = Bill/Invoice Details == = Dated :Mon Jan 11 00:23:11 IST 2016

Publisher Name                :BPB
M.R.P. in Rs.                 :1000.0
Discount rate in Percentage    :30.0%
Discount Amount in Rs.        :300.0
-----

Payable Amount in Rs.         :700.0
1% VAT Amount in Rs.          :7.0
-----

```

Net Bill/Invoice Amount in Rs. :707.0

=====

Enter M.R.P. in Rs. ::500.0

Enter Publisher of Books ::TMH

Enter Book Type as 1/2/3 ::2

= = = Bill/Invoice Details = = = Dated :Mon Jan 11 00:24:36 IST 2016

Publisher Name :TMH

Book type as 1/2/3 :2

M.R.P. in Rs. :500.0

Discount rate in Percentage :20.0%

Discount Amount in Rs. :100.0

Payable Amount in Rs. :400.0

1% VAT Amount in Rs. :4.0

Net Bill/Invoice Amount in Rs. :404.0

=====