

## 1. Write program to find whether a given year is a leap year or not?

### PROGRAM:

```
import java.util.*;

public class Leap {

    public static void main(String[] args)

    {

Scanner obj= new Scanner(System.in);

System.out.println("Enter the year:");

int year = obj.nextInt();

if((year%4==0) || (year%400==0) || ((year%100==0) && (year%400==0)))

{

System.out.println("Yeah! ,its Leap Year");

}

else

{

System.out.println("No!, its not a leap year");

}

}

}
```

## 2. Program to read roll no, name and marks of three subjects and calculate the total, percentage and division?

### PROGRAM:

```
import java.util.*;

public class Student

{

    public static void main(String[] args)

    {

int total,percent;
```

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

System.out.println("Enter the student Roll number");

String rollNo = obj.nextLine();
System.out.println("Enter the student name");

String name = obj.nextLine();

System.out.println("Enter the mark in physics");

int phyMark = obj.nextInt();

System.out.println("Enter the mark in Chemistry");

int cheMark = obj.nextInt();

System.out.println("Enter the mark in Computer Application");

int comMark = obj.nextInt();

total = (phyMark+cheMark+comMark);

System.out.println("Student Roll Number" +rollNo);

System.out.println("Student Name" +name);

System.out.println("Mark in Physics" +phyMark);

System.out.println("Mark in Chemistry" +cheMark);

System.out.println("Mark in Computer Application" +comMark);

System.out.println("Total mark of the Student" +total);

System.out.println("Total percentage of the Student"
+percent);

System.out.println("Total of the Student" +total);

if((percent>50)&& (percent<75))

{

    System.out.println("Student pass in secondclass");

}

else if((percent>76)&& (percent<100))

{

    System.out.println("Student pass in First class");
```

```
}  
else  
  
System.out.println("Student get fail in exam");  
  
}
```

### 3. Program to read temperature in centigrade and display a suitable message?

#### PROGRAM:

```
import java.util.Scanner;  
  
public class Temperature  
{  
  
    public static void main(String[] args)  
{  
  
    Scanner obj = new Scanner(System.in);  
  
    System.out.println("Enter the current temperature");  
  
    float temp = obj.nextFloat();  
  
    if (temp<=0)  
    {  
  
        System.out.println("Its too Freezing weather");  
  
    }  
  
    else if ((temp>=0) && (temp<30))  
    {  
  
        System.out.println("Its Cold weather");  
  
    }  
  
    else if ((temp>=31) && (temp<36))  
    {  
  
        System.out.println("Its noraml weather");  
  
    }  
  
    else  
    {  
  
        System.out.println("Its too Hot");  
  
    }  
  
}
```

```
}
```

#### 4. Program to check whether a character is an alphabet, digit or special character?

##### PROGRAM:

```
import java.util.*;

public class Check {

    public static void main(String[] args)

    {

        Scanner obj = new Scanner(System.in);

        System.out.println("Enter the Charcter:");

        char charac = obj.next().charAt(0);

        if((charac>='0') && (charac<='9'))

        {

            System.out.println("Given charcter is number");

        }

        else if(((charac>='A') && (charac<='Z')) || ((charac>='a') && (charac<='z'))

        {

            System.out.println("Given charcter is Alphabet");

        }

        else

            System.out.println("Given charcter is Symbol");

    }

}
```

#### 5. Write a program in to accept a grade and declare the equivalent description?

##### PROGRAM:

```
import java.util.Scanner;

public class Grade

{

    public static void main(String[] args)

    {
```

```

Scanner obj = new Scanner(System.in);

System.out.println("Enter the Grade Obtained");

char check = obj.next().charAt(0);

switch (check)

{

case 'E':

System.out.println("Excellent");

break;

case 'V':

System.out.println("Very Good");

break;

case 'G':

System.out.println("Good");

break;

case 'A': System.out.println("Average");

break;

case 'F':

System.out.println("Fail");

break;

default :

System.out.println("Please! enter the valid grade");

}

}

}

```

**6. Write a program to read any day number in integer and display day name in the word?**

**PROGRAM:**

```

import java.util.*;

public class Day
{

```

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

{

Scanner obj = new Scanner(System.in);

System.out.println("Enter the number:");

char check = obj.next().charAt(0);

switch(check)

{

case '1':

System.out.println("Sunday");

break;

case '2':

System.out.println("Monday");

break;

case '3':

System.out.println("Tuesday");

break;

case '4':

System.out.println("Wednesday");

break;

case '5':

System.out.println("Thursday");

break;

case '6':

System.out.println("Friday");

break;

case '7':

System.out.println("Saturday");

break;

default :
```

```
System.out.println("Please! enter the valid number");  
  
}  
  
}  
  
}
```

## 7. Read integer value and display the number of days for this month?

### PROGRAM:

```
import java.util.*;  
  
import java.lang.String;  
  
public class Month  
  
{  
  
public static void main(String[] args)  
  
{  
  
int Days=0;  
  
String mon="month";  
  
Scanner obj = new Scanner(System.in);  
  
System.out.println("Enter the number:");  
  
int check = obj.nextInt();  
  
switch (check)  
  
{  
  
case 1:  
  
mon = "January";  
  
Days = 31;  
  
break;  
  
case 2:  
  
mon = "Febuary";  
  
Days = 28;  
  
break;  
  
case 3:  
  
mon = "March";
```

```
Days = 31;

break;

case 4:

mon = "April";

Days = 30;

break;

case 5:

mon = "May";

Days = 31;

break;

case 6:

mon = "June";

Days = 30;

break;

case 7:

mon = "July";

Days = 31;

break;

case 8:

mon = "August";

Days = 31;

break;

case 9:

mon = "September";

Days = 30;

break;

case 10:

mon = "October";

Days = 31;

break;
```



```
case 11:

mon = "November";

case 12:

mon = "December";

Days = 31;

break;

default :

System.out.println("Please! enter the valid number");

}

System.out.println(mon + "=" +Days);

}

}
```

