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

PROGRAM:

```java
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:

```java
import java.util.*;

public class Student

{

public static void main(String[] args)

{

int total,percent;
```

```java
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:

```java
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:

```java
import java.util.*;

public class Check {

public static void main(String[] args)

{

Scanner obj = new Scanner(System.in);

 System.ut.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:

```java
import java.util.Scanner;

public class Grade

{

public static void main(String[] args)

{
```

```java
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:

```java
import java.util.*;

public class Day
{
```

```java
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 :
```

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

}

}

}
```

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

PROGRAM:

```java
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;
```

```java
        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);

}

}
```