

Assignment- 3

1. Write a program to know whether it is leap year or not.

```
import java.util.Scanner;

public class LeapYear
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        System.out.println(" enter a year");
        int year=s.nextInt();
        if (year % 400 == 0)
        {
            System.out.println(year+" is a leap year.");
        }
        else if (year % 100 == 0)
        {
            System.out.println(year+" is not a leap year.");
        }
        else if (year % 4 == 0)
        {
            System.out.println(year+" is a leap year.");
        }
        else
        {
            System.out.println(year+" is not a leap year.");
        }
    }
}
```

```
}
```

```
}
```

Output:

enter a year

2000

2000 is a leap year

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

Test Data:

Roll Number :51

Name of Student :Akash

Marks of Physics, Chemistry and Computer Application :70 80 90

Expected Output :

Roll No : 51

Name of Student: Akash

Marks in Physics : 70

Marks in Chemistry : 80

Marks in Computer Application : 90Total

Marks = 240

Percentage = 80

Division = First

```
package assignment;
```

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

```
public class Marks
```

```

{
public static void main(String[] args)
{
Scanner scan=new Scanner(System.in);
System.out.println("Enter the roll number:");
int Rnum=scan.nextInt();
System.out.println("Enter the student Name:");
String sName=scan.next();
System.out.println("Enter physics mark:");
Int phyMark=scan.nextInt();
System.out.println("enter chemistry mark:");
int cheMark=scan.nextInt();
System.out.println("enter com app mark:");
int comappMark=scan.nextInt();
int total=phyMark +cheMark+comappMark;
int total=phyMark +cheMark+comappMark;
int percentage=total/3;
System.out.println(" Roll No:" + Rnum);
System.out.println("Name of Student: "+sName);
System.out.println("Mark in physics:" +phyMark);
System.out.println("Mark in chemistry: "+cheMark);
System.out.println("Mark in computer Application:"+comappMark);
System.out.println("Total Marks: "+total);
System.out.println("percentage:"+percentage);
System.out.println("Division=First");
}
}

```

Output:

Enter the roll number:

51

Enter the student Name:

Akash

Enter physics mark:

70

enter chemistry mark:

80

enter com app mark:

90

Roll No:51

Name of Student: Akash

Mark in physics:70

Mark in chemistry: 80

Mark in computer Application:90

Total Marks: 240

percentage:80

Division=First

3. program to read temperature in centigrade and display a suitable message.

```
import java.util.Scanner;

public class Temperature
{
    public static void main(String[] args)
    {
        String weather;
        Scanner scan=new Scanner(System.in);
        System.out.println("enter the temperature: ");
```

```

int temp=scan.nextInt();
if(temp<=0)
weather="freezing";
else if(temp>0 && temp<=30 )
weather="normal";
else if (temp>31&& temp<=40)
weather="Hot";
else
weather="very Hot";
System.out.println("weather condition: "+weather);
}
}

```

Output:

enter the temperature:

-4

Weather condition: Freezing

4. Program to check whether the character is alphabet, digit or special character.

```

import java.util.Scanner;

public class Checkprgm
{
    public static void main(String[] args)
    {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter the any character:");
    }
}

```

```

char ch=scan.next().charAt(0);
if((ch>='a' && ch<='z') || (ch>='A' && ch<='Z'))
{
System.out.println(ch + "is alphabet");
}
else if(ch>='0' && ch<='9')
{
System.out.println(ch+ "is number");
}
else
{
System.out.println(ch+"is Spacial character:");
}
}
}

```

Output:

Enter any character:

4

4 is number

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

```

import java.util.Scanner;

public class GradeMark
{
public static void main(String[] args)
{

```

```
Scanner scan=new Scanner(System.in);
System.out.print("Enter the GRADE E,V,G,A,F :");
char ch=scan.next().charAt(0);
switch(ch)
{
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("invalid Grade");
}
}
```

Output:

Enter the Grade E,V,G,A,F: V

Very good

6. Write a program to read any day number in integer and display day in word.

```
import java.util.Scanner;

public class DisplayWord
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number from 1 to 7: ");
        int day_num=sc.nextInt();
        if(day_num==1)
        {
            System.out.println("Sunday");
        }
        else if(day_num==2)
        {
            System.out.println("Monday");
        }
        else if(day_num==3) {
            System.out.println("Tuesday");
        }
        else if(day_num==4)
        {
            System.out.println("Wednesday");
        }
        else if(day_num==5)
        {
            System.out.println("Thursday");
        }
    }
}
```



```
else if(day_num==6)
{
System.out.println("Friday");
}
else if(day_num==7)
{
System.out.println("Saturday");
}
else
{
System.out.println("Alowed numbers from 1 to 7 only");
}
}
}
```

Output:

Enter the number from 1 to 7:

4

Wednesday