ASSIGNMENT-3

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

```
package edubridge;

import java.util.Scanner;

public class leapyear {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc = new Scanner(System.in);

int year;

System.out.println("Enter any year");

year=sc.nextInt();

if(year%4==0&&year%100!=0)

{

System.out.println(year+"is a leap year");

}

else

{

System.out.println(year+"is not a leap year");

}

}

}
```

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

Testdate:

Input the rollno.of the student:784

Input the name of the student:james

Input the names of physics,chemistry and computer applications :70 80 90

Expected output:

Rollno:784

Name of the student:james

Marks in physics:70

Marks in chemistry:80

Marks in computer application:90

Total marks=240

Percentage=80.00

Division=First.

```
package edubridge;

import java.util.Scanner;

public class program32 {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner scanner=new Scanner(System.in);

System.out.println("roll no of student:");

int rollno=scanner.nextInt();

System.out.println("name of the student:");

String studentName=scanner.next();

System.out.println("marks of physics:");

int physicsMarks=scanner.nextInt();

System.out.println("marks of chemistry:");

int chemistryMarks=scanner.nextInt();

System.out.println("marks of computer application:");

int computerAppMarks=scanner.nextInt();

double totalMarks=physicsMarks+chemistryMarks+computerAppMarks;

double percentage=(totalMarks/300)*100;

System.out.println("rollno:"+rollno);

System.out.println("name Of Student:"+studentName);
```

```
System.out.println("Marks in physics:"+physicsMarks);

System.out.println("Total Marks:"+totalMarks);

System.out.println("percentage:"+percentage);

if(percentage>=80)

{

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

}

else if(percentage>=60){

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

}

else if(percentage>=40) {

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

}

else

System.out.println("you are failed");

}

}
```

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

```
package edubridge;

import java.util.*;

class weather{

public static void main (String arg[]) {

Scanner in=new Scanner (System.in);

int a;

System.out.print ("Enter the temprature in: ");

a=in.nextInt();

if (a<=20)
```

```
System.out.print ("\n\t Whether is Cool ");
else if (a<=30 && a>=21)
System.out.println ("\n\t Whether is Fine ");
else if (a<=40 && a>=31)
System.out.println ("\n\t Whether is Hot ");
else
System.out.println ("\n\t Whether is very Hot ");
}
}
```

4.program to check whether a character is an alphabet,digit or special character

```
package edubridge;
import java.util.Scanner;
public class charecter
{
public static void main(String[] args)
{
//TODO Auto-generated method stub
Scanner sc = new Scanner(System.in);
System.out.print("Enter any char : ");
char ch=sc.next().charAt(0);
if((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z'))
{
System.out.println(ch+" is Alphabit");
}
else if(ch>='0'&&ch<='9')
{
System.out.println(ch+" is Digit");
```

```
}
else
{
System.out.println(ch+" is special charecter");
   }
  }
}
```

5.write a program in to accept a grade and declare the equivalent

GRADE	DESCRIPTION
E	Excellent
V	Very good
G	Good
A	Average

```
package edubridge;
                import java.io.BufferedReader;
                import java.io.IOException;
                import java.io.InputStreamReader;
                public class grade_description
                {
                   public static void main(String[] args) throws IOException
                   {
                      char a;
                      BufferedReader bf = new BufferedReader(new InputStreamReader(System.in));
                      System.out.print("Enter grade of the student:");
                      a = (char) bf.read();
                      if(a == 'E' || a == 'e')
                      {
                         System.out.println("Excellent");
                      }
                      else if(a == 'V' || a == 'v')
```

```
                    {
                       System.out.println("Very good");
                    }
                    else if(a == 'G' || a == 'g')
                    {
                       System.out.println("Good");
                    }
                    else if (a == 'A' || a == 'a')
                    {
                       System.out.println("Average");
                    }
                    else
                    {
                        System.out.println("failed");
        }
}
                }
```

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

```
package edubridge;
import java.util.Scanner;
public class weeks {
public static void main(String[] args) {
// TODO Auto-generated method stub
Scanner in = new Scanner(System.in);
System.out.print("Input number: ");
int day = in.nextInt();
System.out.println(getDayName(day));
}
// Get the name for the Week
```

```
public static String getDayName(int day) {
String dayName = "";
switch (day) {
case 1: dayName = "Monday"; break;
case 2: dayName = "Tuesday"; break;
case 3: dayName = "Wednesday"; break;
case 4: dayName = "Thursday"; break;
case 5: dayName = "Friday"; break;
case 6: dayName = "Saturday"; break;
case 7: dayName = "Sunday"; break;
default:dayName = "Invalid day range";
}
return dayName;
}
}
```

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

```
package edubridge;
import java.util.Scanner;
public class month {
public static void main(String[] args)
{
Scanner in = new Scanner(System.in);
System.out.print("Input floating-point number: ");
double x = in.nextDouble();
System.out.print("Input floating-point another number: ");
double y = in.nextDouble();
x = Math.round(x * 1000);
```

```
x = x / 1000;

y = Math.round(y * 1000);

y = y / 1000;

if (x == y)

{

System.out.println("They are the same up to three decimal places");

}

else

{

System.out.println("They are different");

}

}

}
```