

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

```
Import java.util.Scanner;

public class Leap

{

public static void main(String[] args){

//calculate the leap year

int year;

Scanner sc=new Scanner(System.in);

System.out.println("enter the any year");

year=sc.nextInt();

if(year%4==0)//check condition for leap year

{

System.out.println("entered year is leap");//true condition

}

else

{

System.out.println("entered year is not leap");//else condition

}

}

}
```

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

Test Data :

Input the Roll Number of the student :784

Input the Name of the Student :James

Input the marks of Physics, Chemistry and Computer Application : 70 80 90

*Expected Output :*

Roll No : 784

Name of Student : James

Marks in Physics : 70

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Marks in Chemistry : 80  
Marks in Computer Application : 90  
Total Marks = 240  
Percentage = 80.00  
Division = First

```
import java.util.Scanner;

public class StudentInfo {

    public static void main(String[] args) {

        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("ROLL no : " + rollNo);

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

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

        System.out.println("Marks in chemistry : " + chemistryMarks);

        System.out.println("Marks in Computer Application: " + computerAppMarks);

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

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

        if (percentage >= 80) {
```

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```
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 Falied !!");
}
}
```

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

```
import java.util.Scanner;

class Temp{

    public static void main(String args[]) {
Scanner sc = new Scanner(System.in);

        System.out.print("Enter the temperature: ");
int temp=sc.nextInt();

String s="";

if(temp<=0) s="Freezing ";
else if(temp>=21&&temp<=30) s="Normal ";
else if(temp>=31&&temp<=40) s="Hot ";
else if(temp>40) s="Very hot ";

System.out.println(s+ "weather.");
}
}
```

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

```
import java.util.Scanner;

public class Charater{
```

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

    Scanner scanner = new Scanner(System.in);

    System.out.println("Enter any character : ");
    char ch = scanner.next().charAt(0);

    if((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {

        System.out.println(ch + " is A ALPHABET.");

    } else if(ch >= '0' && ch <= '9') {

        System.out.println(ch + " is A DIGIT.");

    } else {

        System.out.println(ch + " is A SPECIAL CHARACTER.");

    }

}

}
```

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

Grade	Description
E	Excellent
V	Very Good
G	Good
A	Average
F	Fail

Test Data :

Input the grade :A

*Expected Output :*

You have chosen : Average

```
import java.util.Scanner;

public class Grades

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

Scanner sc = new Scanner(System.in);

System.out.println(" enter your Grade : ");

char grade = sc.next().charAt(0);

switch (grade) {

case 'A', 'a':

System.out.println("Average");

break;

case 'G', 'g':
```

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```
System.out.println("Good");
break;
case 'V', 'v':
System.out.println(" Very Good");
break;
case 'E', 'e':
System.out.println("EXcellent "); break;
case 'F', 'f':
System.out.println("Fail");
break;
default:
System.out.println("Invalid Input");
}}
}
```

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

```
import java.util.Scanner;

public class Week
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter day number : ");
        int dayNum = sc.nextInt();
        switch (dayNum) {
            case 1:
                System.out.println("Sunday");
                break;
            case 2:
```

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```
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("enter valid number from 1 to 7");

}

}}
```

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

/\*public class Month\* Java program to input month number and print number of days in that month and month.

\*/

```
import java.util.Scanner;

class Month

{

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

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```
{
    int month;

Scanner p=new Scanner(System.in);

    System.out.print("Enter month number (1-12): ");
    month=p.nextInt();
    if(month == 1)
    {
        System.out.println("JANUARY 31 days");
    }
    else if(month == 2)
    {
        System.out.println("FEBRUARY 28 or 29 days");
    }
    else if(month == 3)
    {
        System.out.println("MARCH 31 days");
    }
    else if(month == 4)
    {
        System.out.println("APRIL 30 days");
    }
    else if(month == 5)
    {
        System.out.println("MAY 31 days");
    }
    else if(month == 6)
    {
        System.out.println("JUNE 30 days");
    }
}
```



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```
}  
else if(month == 7)  
{  
    System.out.println("JULY 31 days");  
}  
else if(month == 8)  
{  
    System.out.println("AUGUST 31 days");  
}  
else if(month == 9)  
{  
    System.out.println("SEPTEMBER 30 days");  
}  
else if(month == 10)  
{  
    System.out.println("OCTOBER 31 days");  
}  
else if(month == 11)  
{  
    System.out.println("NOVEMBER 30 days");  
}  
else if(month == 12)  
{  
    System.out.println("DECEMBER 31 days");  
}  
else  
{  
    System.out.println("Invalid input! Please enter month number between (1-12).");  
}
```

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}

}