

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

Program:

Code:

```
import java.util.Scanner;

public class LeapYear {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int year;

        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter Year");
        year=scanner.nextInt();
        if(((year%4==0) && (year%100!=00)) || (year%400==0))
            System.out.println("Entered year is Leap Year");
        else
            System.out.println("Entered year is not a leap year");
    }
}
```

Output:

Enter Year

2024

Entered year is Leap Year

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

```
Code: import java.util.Scanner;

public class TotalPercentageDivision {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int rollno, phyMarks, chemMarks, caMarks;
        String studName;

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

```
System.out.println("Enter Student's Roll No. : ");
rollno=scanner.nextInt();

System.out.println("Enter student's Name : ");
studName=scanner.next();

System.out.println("Enter Physics Marks : ");
phyMarks=scanner.nextInt();
System.out.println("Enter Chemistry Marks : ");
chemMarks=scanner.nextInt();
System.out.println("Enter Computer Application Marks : ");
caMarks=scanner.nextInt();

float total=phyMarks+chemMarks+caMarks;
float percentage=(total*100)/300;

System.out.println("Roll No: "+rollno);
System.out.println("Name of student: "+studName);
System.out.println("Marks in Physics: "+phyMarks);
System.out.println("Marks in Chemistry: "+chemMarks);
System.out.println("Marks in Computer Application: "+caMarks);
System.out.println("Total Marks: "+total);
System.out.println("Percentage: "+percentage);

if(percentage>=60 && percentage<=100) {
System.out.println("Division: First");
}
else if (percentage>=50 && percentage<60) {
System.out.println("Division: Second");
}
else if (percentage>=40 && percentage<50) {
```

```
System.out.println("Division: Third");  
}  
else  
System.out.println("Fail");  
}  
}
```

Output:

Enter Student's Roll No. :

784

Enter student's Name :

james

Enter Physics Marks :

70

Enter Chemistry Marks :

80

Enter Computer Application Marks :

90

Roll No: 784

Name of student: james

Marks in Physics: 70

Marks in Chemistry: 80

Marks in Computer Application: 90

Total Marks: 240.0

Percentage: 80.0

Division: First

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

Program:

Code:

```
import java.util.Scanner;  
  
public class TemperatureInCentigrade {  
  
    public static void main(String[] args) {
```

```
// TODO Auto-generated method stub

int temp;

Scanner scanner=new Scanner(System.in);

System.out.println("Enter temperature in Centigrade: ");

temp=scanner.nextInt();

if(temp<0)

System.out.println("Freezing weather.");

else if (temp<10)

System.out.println("Very cold weather.");

else if (temp<20)

System.out.println("Cold weather");

else if(temp<30)

System.out.println("Normal weather");

else if(temp<40)

System.out.println("Its Hot");

else

System.out.println("Its very hot");

}

}
```

Output:

Enter temperature in Centigrade:

26

Normal weather

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

program:package main.java;

Code:

```
import java.util.Scanner;

public class CheckingTheCharacter {

public static void main(String[] args) {

// TODO Auto-generated method stub
```

```

char ch;
System.out.println("Enter the Character: ");
Scanner scanner=new Scanner(System.in);
ch=scanner.next().charAt(0);
if ((ch>='a' && ch<='z')||(ch>='A' && ch<='Z'))
System.out.println("Entered Character is Alphabet.");
else if (ch>='0' && ch<='9')
System.out.println("Entered character is digit.");
else
System.out.println("Entered Character is Special Character.");
}
}

```

Output:

Enter the Character:

55

Entered character is digit.

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

Program:

Code:

```

import java.util.Scanner;

public class GradeBySwitchStatement {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        String grade;
        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter the grade : ");
        grade=scanner.nextLine();
        switch (grade) {
            case "E":
                System.out.println("Excelent");
                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");
}
}
}

```

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

```

import java.util.Scanner;

public class DisplayDay {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int dayno;

        Scanner scanner=new Scanner(System.in);
        System.out.println("Enter day number : ");
        dayno=scanner.nextInt();

        switch (dayno) {
            case 1:
                System.out.println("Monday");
                break;
            case 2:

```

```
System.out.println("Tuesday");
break;
case 3:
System.out.println("Wednesday");
break;
case 4:
System.out.println("Thursday");
break;
case 5:
System.out.println("Friday");
break;
case 6:
System.out.println("Saturday");
break;
case 7:
System.out.println("Sunday");
break;
default:
System.out.println("invalid No, Please enter number between 1 to 7");

}
}
}
```

Output:

Enter day number :

6

Saturday

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

Code:

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

```
public class NumberOfDaysMonth {  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        int num;  
        Scanner scanner=new Scanner(System.in);  
        System.out.println("Enter the number : ");  
        num=scanner.nextInt();  
        switch (num) {  
            case 1:  
                System.out.println("31 days in January");  
                break;  
            case 2:  
                System.out.println("28 days in February");  
                break;  
            case 3:  
                System.out.println("31 days in March");  
                break;  
            case 4:  
                System.out.println("30 days in April");  
                break;  
            case 5:  
                System.out.println("31 days in May");  
                break;  
            case 6:  
                System.out.println("30 days in June");  
  
                break;  
            case 7:  
                System.out.println("31 days in July");  
                break;  
            case 8:
```



```
System.out.println("31 days in August");
break;
case 9:
System.out.println("30 days in September");
break;
case 10:
System.out.println("31 days in October");
break;
case 11:
System.out.println("30 days in November");
break;
case 12:
System.out.println("31 days in December");
break;
default:
System.out.println("invalid No, Please enter number between 1 to 12");

}
}
}
```

Output:

Enter the number :

10

31 days in October