

# Java Assignment-03

Shekhar padhy

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

```
import java.util.Scanner;
public class leapyear {

    public static void main(String[] args) {
        int year;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a year:");
        year=sc.nextInt();
        if(year%4==0 && year%400==0) {
            System.out.println("It's a leap year");

        }
        else {
            System.out.println("It's not a leap year");
        }

    }

}
```

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

```
import java.util.Scanner;
public class TestResult {

    public static void main(String[] args) {
        String name;
        int rollNo, marksPhysics, marksChem, marksComp;

        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter Your Name:");
        name=sc.next();
        System.out.println("Enter Your Roll-No:");
        rollNo=sc.nextInt();
        System.out.println("Enter Your Physics Marks:");
        marksPhysics=sc.nextInt();
        System.out.println("Enter Your Chemistry Marks:");
        marksChem=sc.nextInt();
        System.out.println("Enter Your Computer Marks:");
        marksComp=sc.nextInt();
        int totalMarks=marksPhysics+marksChem+marksComp;
        System.out.println("Your total marks is:"+totalMarks);
        int Percentage=(totalMarks/3);
        System.out.println("percentage:"+Percentage);
        if(Percentage>=80) {
            System.out.println("Division:A");
        }
        else if(Percentage>=60) {
            System.out.println("Division:B");
        }
        else if(Percentage>=40) {
            System.out.println("Division:C");
        }
        else if(Percentage<40) {
            System.out.println("Division:D");
        }
    }
}
```

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```
}
```

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

```
import java.util.Scanner;
public class Centigrade {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int temp;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the temperature:");
        temp = sc.nextInt();
        if(temp >= 0 && temp < 10) {
            System.out.println("Its Too Cold freezing temperature");
        }
        else if(temp >= 10 && temp < 20) {
            System.out.println("Its Cold ");
        }
        else if(temp >= 20 && temp < 30) {
            System.out.println("Its Normal");
        }
        else if(temp >= 30 && temp < 40) {
            System.out.println("Its Hot ");
        }
        else if(temp >= 40 && temp < 50) {
            System.out.println("Its too hot ");
        }
        else
            System.out.println("Its too hot human surviving is tough");

    }

}
```

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

```
import java.util.Scanner;
public class ALphaDigitSpecial {
//    Scanner sc =new Scanner(System.in);
////    System.out.println("Enter any Character:")
////    char ch =sc.next();
//    System.out.println("character:");
    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("Its letter");
        }
        else if(ch>='0' && ch<='9') {
            System.out.println("Its number ");
        }
        else {
            System.out.println("Its special character");
        }
    }
}
```

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

```
import java.util.Scanner;

public class GradeSelection {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Select a Grade(E,V,G,A,F) to know the description:");
        char grade=sc.next().charAt(0);
        switch(grade) {
            case 'A','a':
                System.out.println("Average");
                break;
            case 'G','g':
                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");
        }
    }
}
```

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

```
import java.util.Scanner;
1.      public class WeekDays {
2.          public static void main(String[] args) {
3.              int dayNum;
4.              Scanner sc = new Scanner(System.in);
5.              System.out.println("Select a number(1-7)day:");
6.              dayNum =sc.nextInt();
7.
8.              switch(dayNum) {
9.                  case 1:
10.                     {
11.                         System.out.println("monday");
12.                         break;
13.                     }
14.                  case 2:
15.                     {
16.                         System.out.println("Tuesday");
17.                         break;
18.                     }
19.                  case 3:
20.                     {
21.                         System.out.println("Wednesday");
22.                         break;
23.                     }
24.                  case 4:
25.                     {
26.                         System.out.println("thrusday");
27.                         break;
```

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```
28.     }
29.     case 5:
30.     {
31.         System.out.println("friday");
32.         break;
33.     }
34.     case 6:
35.     {
36.         System.out.println("saturday");
37.         break;
38.     }
39.     case 7:
40.     {
41.         System.out.println("sunday");
42.         break;
43.     }
44.     default:
45.         System.out.println("invalid number");
46.         break;
47.
48.     }
49.
50. }
51.
52. }
53.
```

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

```
import java.util.Scanner;

public class DaysInMonth {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int num;
        Scanner sc = new Scanner(System.in);
        System.out.println("Select a number of month(1-12):");
        num = sc.nextInt();

        switch(num) {
            case 1:
            {
                System.out.println("January 31");
                break;
            }
            case 2:
            {
                System.out.println("February 28");
                break;
            }
            case 3:
            {
                System.out.println("March 31");
                break;
            }
            case 4:
            {
                System.out.println("April 30");
                break;
            }
            case 5:
            {
                System.out.println("May 31");
                break;
            }
            case 6:
            {
                System.out.println("June 30");
                break;
            }
        }
    }
}
```



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```
    }  
    case 7:  
    {  
        System.out.println("July 31");  
        break;  
    }  
    case 8:  
    {  
        System.out.println("August 30");  
        break;  
    }  
    case 9:  
    {  
        System.out.println("September 30");  
        break;  
    }  
    case 10:  
    {  
        System.out.println("October 31");  
        break;  
    }  
    case 11:  
    {  
        System.out.println("November 30");  
        break;  
    }  
    case 12:  
    {  
        System.out.println("December 31");  
        break;  
    }  
    default:  
    {  
        System.out.println("Invalid month");  
        break;  
    }  
    }  
}
```