Assignment No 3

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

Program –

```
package com.edubridge.assignment3;
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

Program –

```
package com.edubridge.assignment3;
import java.util.Scanner;

public class PercentageCalculator
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the Roll No of Student :");
		int rollno = sc.nextInt();
		System.out.println("Enter the Name of the Student :");
		String name = sc.next();
		System.out.println("Enter the Marks of Physics,
		Chemistry, Computer Application :");
		int phy = sc.nextInt();
		int che = sc.nextInt();
```

```
            int comapp = sc.nextInt();
            System.out.println("-----------------------");
            System.out.println("Roll Number:" +rollno);
            System.out.println("Name of Student:" +name);
            System.out.println("Marks in Physics "+phy+" \nMarks in
            Chemistry " +che+ " \nMarks in Computer Application
            "+comapp);
            float total, percentage;
            String division;
            total = phy+che+comapp;
            percentage = total/300*100;
            System.out.println("Total Marks = " +total);
            System.out.println("Percentage = " +percentage);
            if(percentage>75)
            {
                  System.out.println("Division : Distinction");
            }
            else if(percentage>=60)
            {
                  System.out.println("Division : First Class");
            }
            else if(percentage<60)
            {
                  System.out.println("Division : Second Class");
            }
            else
            {
                  System.out.println("Failed");
            }
      }
}
```

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

Program –

```
package com.edubridge.assignment3;

import java.util.Scanner;
public class Temperature
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter Temperature");
            int temp = sc.nextInt();
            String a;
            String s="";
            if(temp<0)
```

```
            {
                  s = "Freezing";
            }
            else if(temp>=21 && temp<=30)
            {
                  s = "Normal";
            }
            else if(temp>=31 && temp<=40)
            {
                  s = "Hot";
            }
            else
            {
                  s = "Very Hot";
            }
            System.out.println("Weather " +s);
      }

}
```

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

Program –

```
package com.edubridge.assignment3;
import java.util.Scanner;

public class CheckingAlphaNum
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter Something :");
            char ch = sc.next().charAt(0);
            if(ch >= 'a' && ch <='z' || ch >='A' && ch<='z')
            {
                  System.out.println(ch+ " is an Alphabet");
            }
            else if(ch>='0' && ch<='9')
            {
                  System.out.println(ch+ " is an Number");
            }
            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

Program –

```
package com.edubridge.assignment3;
import java.util.Scanner;

public class Grade
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		{
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter Grade : ");
		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("Inavlid Input");
            }
            }
      }
}
```

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

Program –

```
package com.edubridge.assignment3;

import java.util.Scanner;
public class NumberDay
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter Day In Number : ");
            int Numday = sc.nextInt();
            switch(Numday)
            {
                  case 1 : System.out.print("Sunday");
                  break;
                  case 2 : System.out.print("Monday");
                  break;
                  case 3 : System.out.print("Tueday");
                  break;
                  case 4 : System.out.print("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

Program –

```
package com.edubridge.assignment3;
```

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

	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		int month;
		System.out.println("Enter Month in Number[1 - 12] :");
		month = sc.nextInt();
		if(month==1)
		{
			System.out.println("Its January 31 Days");
		}
		else if(month==2)
		{
			System.out.println("Its February 29 Days");
		}
		else if(month==3)
		{
			System.out.println("Its March 31 Days");
		}
		else if(month==4)
		{
			System.out.println("Its April 30 Days");
		}
		else if(month==5)
		{
			System.out.println("Its May 31 Days");
		}
		else if(month==6)
		{
			System.out.println("Its June 30 Days");
		}
		else if(month==7)
		{
			System.out.println("Its July 31 Days");
		}
		else if(month==8)
		{
			System.out.println("Its August 31 Days");
		}
		else if(month==9)
		{
			System.out.println("Its September 30 Days");
		}
		else if(month==10)
		{
			System.out.println("Its October 31 Days");
		}
```

```
            else if(month==11)
            {
                  System.out.println("Its November 30 Days");
            }
            else if(month==2)
            {
                  System.out.println("Its December 31 Days");
            }
            else
            {
                  System.out.println("Please Enter Valid Input");
            }
      }
}
```