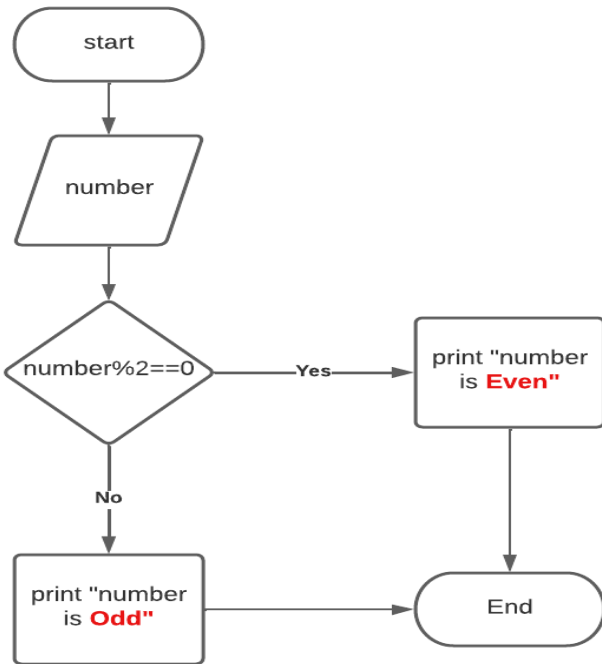


## Assignment 1.1



1. Start
2. Get the number
3. Check the remainder, when the number is divided by 2 is zero or not...
  - a. If Yes print "number is Even"
  - b. If No print "number is Odd"
4. End

## Assignment 1.2

```
public class A1_2
{
    public static void main(String args[])
    {
        int n,f;
        for(n=6,f=n;n>1;n--)//The number
        {
            f=f*(n-1);
        }
        System.out.println(f);
    }
}
//output
/*D:\DAC>javac A1_2.java
D:\DAC>java A1_2
720
D:\DAC>*/
```

## Assignment 1.3

```
public class A1_3
{
    public static void main(String args[])
    {
        int n=5,f;//the number
        f=fact(n);
        System.out.println(f);
    }
    public static int fact(int num)//factorial function
```

```

    {
        if(num<2)
            return 1;
        else
            num=num*fact(--num);//recurssion
        return num;
    }
}
//output
/*D:\DAC>java A1_3
120
*/

```

#### ----- Assignment 1.4 -----

```

public class A1_4
{
    //int a=50,b=10;
    public static void main(String args[])
    {
        int a=5,b=10;
        System.out.println("+++++");
        System.out.println("\t\t a=" + a + "\t\t b=" + b + "\t\t");
        System.out.println("-----Swapping-----");
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println("\t\t a=" + a + "\t\t b=" + b + "\t\t");
        System.out.println("+++++");
    }
}

```

```

//output
/*D:\DAC>java A1_4
+++++
\t\t a=5\t\t b=10\t\t |
-----Swapping-----\t\t |
\t\t a=10\t\t b=5\t\t |
+++++
D:\DAC>*/

```

#### ----- Assignment 1.5 -----

```

public class A1_5
{
    public static void main(String args[])
    {
        int n=-10;//The number
    }
}

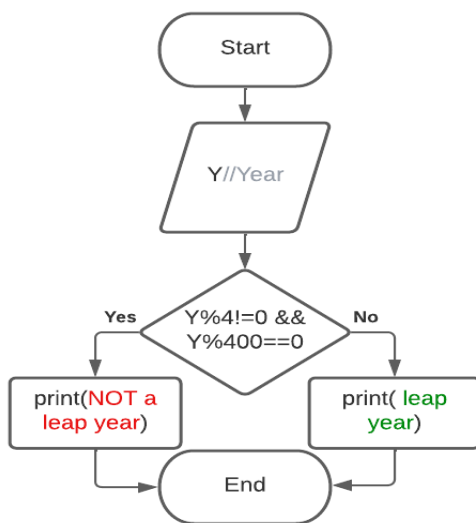
```

```

        if(n+1<n)//condition
            System.out.println("POSITIVE");
        else
            System.out.println("NEGATIVE");
    }
}
//output
/*
D:\DAC>javac A1_5.java
D:\DAC>java A1_5
NEGATIVE
*/

```

### ----- Assignment 1.6 -----



1. Start
2. Get input Y for year
3. Check, leap year condition=>divisible by 4 but not by 400
  - a. If Yes, It's a Leap year .
  - b. If No, It's NOT a leap year.
4. End

### ----- Assignment 1.7 -----

```

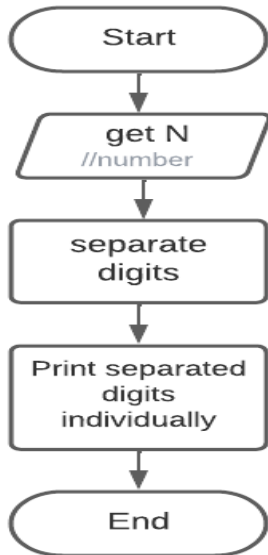
public class A1_7
{
    public static void main(String args[])
    {
        int n=10;//the number
        PS(n,1);
    }
    public static void PS(int n,int p)
    {
        if(n>=p)
        {System.out.println(p);    PS(n,++p);}
    }
}
//Output
/* D:\DAC>javac A1_7.java
D:\DAC>java A1_7
1
2

```

3  
4  
5  
6  
7  
8  
9  
10

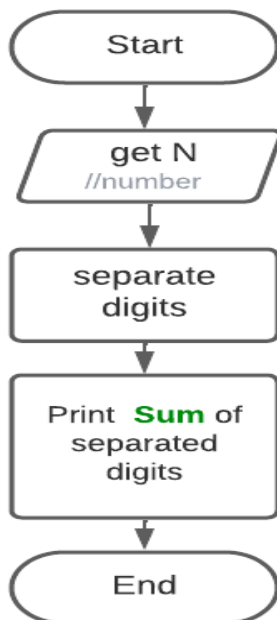
D:\DAC>\*/

### ----- Assignment 1.8 -----



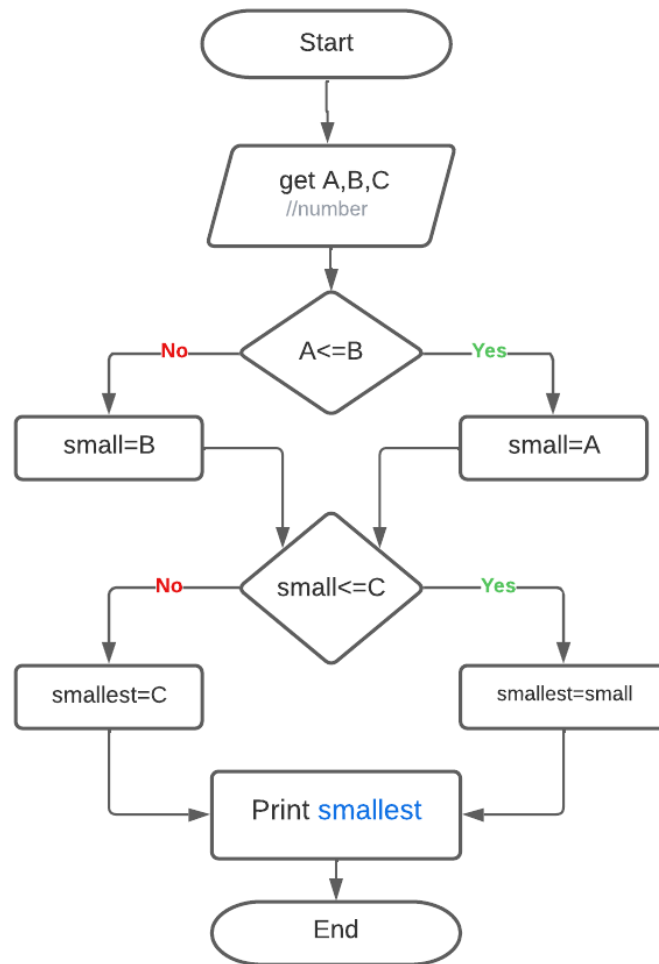
1. Start
2. Scan the number
3. Separate the digits
4. Print the digits individually
5. End

### ----- Assignment 1.10 -----



1. Start
2. Scan the number
3. Separate the digits
4. Print Sum of the digits
5. End

## Assignment 1.11



\*\*\*\*\*