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ROLL NO. : 312011

SEM : III (S.E)

BRANCH : COMPUTER ENGG

SUBJECT : OOPS WITH JAVA

Exp .1

AIM: PROGRAM TO IMPLEMENT BRANCHING AND LOOPING CONSTRUCTS.

Program 1. : To check whether a given year is Leap year or not using **Branching Constructs**.

Code :

```
import java.util.*;

public class Leap
{

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


        System.out.println("Enter the year :");

        int yr=sc.nextInt();

        if (yr % 4==0 && yr % 100!=0 || yr %400==0)
        {
            System.out.printf("%d is a Leap year",yr);
```

```
    }  
  
    else  
    {  
        System.out.printf("%d is not a Leap year",yr);  
    }  
  
}  
}
```

Output :

 Command Prompt

```
C:\Users\hp\Desktop\Java\Practicals>javac Leap.java  
  
C:\Users\hp\Desktop\Java\Practicals>java Leap  
Enter the year :  
2002  
2002 is not a Leap year  
C:\Users\hp\Desktop\Java\Practicals>java Leap  
Enter the year :  
2000  
2000 is a Leap year  
C:\Users\hp\Desktop\Java\Practicals>
```

Program 2 : Program to print a star pattern of 5 rows each having same no. of stars as the row index using **for loop**.

Code :

```
public class Star
{
    int i,j;


    public static void main(String args[])

    {
        int i,j;

        System.out.println("This is a star patter of 5 rows :");

        for(i=1;i<=5;i++)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print("*");
            }
            System.out.println(" ");
        }
    }
}
```

Output :

 Command Prompt

```
C:\Users\hp\Desktop\Java\Practicals>Javac Star.java
```

```
C:\Users\hp\Desktop\Java\Practicals>java Star
```

```
This is a star patter of 5 rows :
```

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

```
C:\Users\hp\Desktop\Java\Practicals>
```