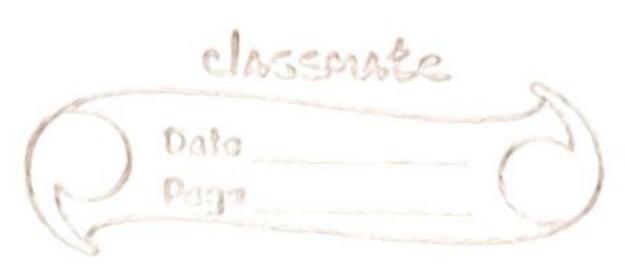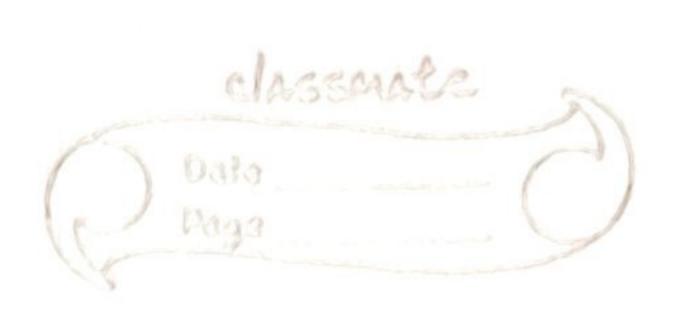K.M. Pranay
192321055
Java Programming

Write a Program to Print the Pattern
Input: Enter the character to be Printed : %
max number of tim Period : 3

```java
Scanner input = new Scanner(System.in);
char c = input.next().CharAt(0);
int n = input.nextInt();
for(int i=1; i<=n; i++){
    for(int j=1; j<=i; j++){
        System.out.print(c);
    }
    System.out.println();
}
```

22. Find the Year of the given date is leap
or not import java.until.Scanner;
public class ak {
    public static void main(String[] args)
{
Scanner input=new scanner(System.in);
String year = input.next();
String a[]=year.split("z");
String d= a[2];
int num=Integer.Present(d);
if((num%4==0 && num%100!=0)||(num%400==0))
    System.out.println("It is a leap year");
else
    System.out.println("Not a leap year");
}
```

23) Find the number of factors for the given number.

```
Scanner input = new scanner (System.in);
int n = input.next Int ();
int factors = 0;
for (int i=1; i<=n; i++) {
    if (n% i ==0)
        factors = factors +1; }
System.out.print ("Number of factors = " + factors);
Scanner input = new scannor (System.in);
int n = input.next Int ();
int factors = 0;
    for (int i=1; i<=n; i++) {
        if (n% i ==0)
            factors ++; }
System.out.Print (factors);
```

24). write a program to print the number of vowels int the given statement?

```
Scanner input = new scannor (system.in);
string name = input.next line ();
int len = name.length ();
Cher a[] = new char[len];
int vow = 0;
    for (int i=0; i<len; i++)
    {
        a[i] = name.Char At (i);
        if (a[i] == 'a' || a[i] = 'e' || a[p] == 'i' || a[i] == 'o'
                                                    || a[i] == 'u'
        || a[i] == 'A' || a[i] == 'F' || a[i] == 'I' || a[i] == 'O'
                                                    || a[i] = 'U')
```

```java
        Vow =Vow+1;
    }
System.out.Println(row);
}
```

26. write a program to print consonants and vowels seperately in the given word.

```java
Scanner input =new Scanner (system.in);
String name =input.nextLine();
int len =name.length();
Char a[] =new Char[len];
Char Vow[]=new Char[len];
    int v=0; c=0;
    for (int i =0; i<len; i++)
    {
    a[i] =name.charAt(i);
    if(a[i]=='a'||a[i]=='e'||a[i]=='i'||a[i]=='o'||
a[i]=='u'||a[i]=='A'||a[i]=='E'||a[i]=='I'||
                                a[i]=='o'
|| a[i]=='U'){
    Vow[v]=a[i];
    v++;}
    else{
    con [c]=a[i];
    c++;}
}
System.out.Print ("Consonants:");
for (int i=0; i<v; i++)
{
    System.out.Print(row[i]);
}
System.out.Print ("In vowels:");
    for (int i=0; i<c; i++)
```

```java
{
    System.out.Print (con[i]);
}
```

27. write a program to Print fibonacei Series

```java
Scanner input = new Scannor (System.in);
int n = input.nextInt();
int a1=0, a2=1;
for (int i=0; i<n; i++)
{
    System.out.Print (a1+" ");
    int a3=a1+a2;
    a1=a2;
    a2=a3;
}
```

28). write a program to Print the below Pattern

```
1
2 2
3 3 3
4 4 4 4
```

```java
Scanner input = new Scannor (System.in);
int n = input.nextInt();
for (int i=1; i<=n; i++)
{
    for(int j=1; j<=i; j++);
}
    System.out.Println();
}
```