1.) Reverse A Word

```
Import java.util.Scanner;

Public Class Reverse {
    public Static Void main(String[] args){
        Scanner input = new
        Scanner(System.in);
        String name = input.nextline();
        String reversed = "";
        int len = name.length()
        For (int i = len - 1; i >= 0;
                                i--){
            reversed = reversed +
                        name.CharAt(i);
        }
        System.out.println(reversed)
    }
}
```

Reg. No : 192325024
Name : A. AFRan
Course code : CSA0993,
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Application program
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~~Imp~~ 2:- Valid email (or) Not

```
Import java.util.Scanner;

Public Class Valid {
    public static Void main(
                String[], args) {
    Scanner input = new
    Scanner(System.in);

    String S1 = input.nextLine();
    String S2 = input.nextLine();

    if (S1 == S2)
        system.out.println("valid");
    else
        system.out.println("Invalid")
```

4.) Voting system

```
import java.util.Scanner;

public Class Stuff {
    public Static Void main(scan String[]
                                args) {

        Scanner input = new
        Scanner(system.in);
        int age = input.nextInt());

        if (age > 18)
            System.out.print(" You are eligible
                                to Vote");

        else if (age == 18)
            system.out.print(" You are
                            eligible to Vote");

        else
            system.out.Print(" You are allowed
                to vote" + (18-age) +
                " years of age ");
    }
}
```

5) Find the LCM and GCD of n number?

CODE:

```
import java.util.Scanner;
public class ak
{
   static int gcd (int a, int b)
   {
     if a==0)
        return b;
     return gcd (b%a, a);
   }
   static int findgcd (int a[], int n)
    {
     int res = = a[0];
     for(int i=0; i<n; i++)
     {
       res = gcd (res, a[i]);
       if (res ==1)
         return 1;
      }
      return res;
   }
    public static void main (String [] args)
{
    Scanner input = new
Scanner (System.in);
int n = input.nextInt ();
```

6.) Right Triangle Star Pattern.

```
import java.util.Scanner;

Public Class RightTriangleStarPattern {
    public Static Void main(String[] args){

        Scanner iput = new
        Scanner(system.in);

        int n = iput.nextint();

        For (int i = 1; i<=n; i++){
            For (int j = 1; j <=i; j++) {
                system.out.print("* ");
            }
            system.out.println();
        }
}
```

7.) ~~Floyd's Triangle~~

7~~8~~.) Pascal's Triangle :-

```
import java.util.Scanner;

public Class PascalTriangle {
    public static void main(String[] args) {

        Scanner iput = new
        Scanner(system.in);

        int n = iput.nextint();

      For(int i=0; i<n; i++) {
        For (int s=0; s<n-i-1; s++) {
          system.out.print(" ");
        }
        int a = 1;

        For (int j=0; j<=i; j++) {
          System.out.print(a + " ");
          a = a* (i-j) / (j+1);
        }

        system.out.println();
      }
      input.Close();
}
```

8:) Simple Interest :-

```
import java.util.Scanner;

public class SimpleInterest {
    public static void main(String[] args)
        (double principal, int years, boolean
            isSeniorCitizen) {
        double rate = isSeniorCitizen ? 0.1 : 0.
        return principal * rate * years;
    }

    public static void main(String[] args) {
        Scanner input = new
        Scanner(System.in);
        System.out.print(" Enter the principal
                amount : ");
        double principal = input.nextDouble();
        System.out.print (" Enter the No. of
                years : ");
        int years = input.nextInt();

        System.out.print(" Is Customer senior
                citizen (y/n) : ");
        boolean IsseniorCitizen = input.next().
            input.next().equalsIgnoreCase("y");
        double interest = CalculateInterest(principal, years,
                isSeniorCitizen);
        System.out.println(" Interest : " + Interest);
        input.close();
    }
}
```

9:)

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```

9) Even Sum of Fibonacci Series

```
import java.util.Scanner;

Public Class EvenFibonacci {
    public Static Void main (String[] args) {

        Scanner input = new
        Scanner(system.in);

        int n = input.nextInt();

        int a1= 0, a2 = 1, Sum = 0;

        For (int i=0; i<=n; i++){
          if (i%2 == 0)
              sum += a1;
           int a3 = a1 + a2;
              a1 = a2;
              a2 = a3;
          }

        system.out.println("Sum: " + sum);
        input.Close();
    }
}
```

10. Write a Program to Print the numbers from M to N by skipping k numbers in between?

CODE:-

```
Public class SkipNumbers
{
   Public Static void main (String[] args)
   {
      int M=50;
      int N=100;
      int K=7;
      for (int i=M; i<=N; i+=K)
      {
         System.out.Print (i+", ");
      }
   }
}
```

3.) Reverse Number

```
Class
Public class reverse {
    public Void main(string[] args) {
        Scanner input = new
        Scanner(system.in);
        system.out.print("Enter a number to rev: ");
        int n = input.nextInt();
        int rev = 0;

        while (n != 0) {

            int rem = n % 10;
            rev = rev * 10 + rem;
            n = n / 10;
        }

        System.out.println("Reversed num: ");

System.out.println("Reversed Number: " +
                    rev);
        Scanner.Close();

    }
}
```