```
public Class Factorial
       public static void main &
            int n = 5;
           in factely
           for Cint i=1; ic=n; i++){
                   fact = fact "i;
           System. out print (fact);
20) Pattern (Y.)
public class pattern {
         public static void main (String [] asgs) ?
               Char C = 1.;
               intin = 5 ; c = 1) oi | i
        monitaries; icn; i++) {
                  for (intj = i +1; j < m = i; j + +) }
                          Systemout print ( ( );
                 system.out.porintln();
         J
```

19 factorial

```
21) Leap Year
 public class po Leap Year &
           public static void main () {
                 Scanner input - new Scanner ( System in);
                 System.out. porint (" Enter Year: ");
                String year = input . next();
                Storing a [] = Year. split ("/")
                String d = a [2];
                inf ((nom 7.4 == 0) & & (nom 7.100) = 0) 11 nom 7.400=0)
                        System.out. println ("It is leap year");
                   system out println ("Non leap year");
            3
22) Factors:
                           ( p) alti 1 the major
  public class Factors {
             public static void main (String [] args) {
                  int n= 6, factors = object mer ling
              for (int i=1; it=n; i++) {
                        14 (n 7, 1 = 180) { [ ]
                   factors: factors +1;
                   - Purplian in Close was
                  a conficercon from it
                 System.out. paint ("No. of factors = "+ factors);
23) Peyect. Number
  public class, perfect ?
    public Static void main (String[] args) {
                   ind n 26, factors = 0;
                   for cintizi; icn; i++) [
                        if (nx 1==0)
                           factors = factors + i;
          if (n== factors)
                       System.out.print ( Perfect Number");
```

```
24) Vowels
                                                    rosy year
public class vowels &
      public static void main { String[] args){
   String n= "Saveetha";
            String x = n. to Lower Case ();
             int y=0; x. length();
            for (int i = 0; ic len) i++) {
            services l'a four que l'actil == 'a' || x [i] == e || x [i] == 'i'||
                          ncis== 'o' | x[i]== 'u') {
       symm out private ("rion leap year );
             System.out, println(y);
                                       public class Factors ?
        priblic static void main (String Li angs) ?
  3
     public class vowels & motion , a an in
25)
           public static void main ( string [] args) {
                String name = "Saveetha";
            ehar a { }; new char [lin];
                 chour vow[] 2 new char [len];
                 char con(): new char[len];
    · ( .... of + introvero pacerojuling mainship
                for (int 1=0; iclen; 1++) {
                     a(i) = name. char At (i);
                     if (acise a'll actize e lactize "i")
         ( cf.ca
                 [] quints ) mom big/c/j==10'11 dep=='u'){
                       ired 1126. factors "
                  vow[v]=a Ci3;
                       ( Vtt)
                 in all sof and or
    econon to feel of mones. ).
```

```
else {
                 con [c]: a [i];
        System. out (Consonants: " ); hete
       for cint [ = 9, = 1 < v ; 1 ++ ) &
             System. out . point (vowci) );
      System.out. porint ( "Vowels ");
     for cint j= 0 3 j < c; j++) {
             System. out. print (con (j)); 116 dila nea, Irapia
                                     no me & . lide . ovo & dargas
     3
  Fibonacci series [ ] print ) mion hior char com alling
  public clas fibonacci gon duy o samos
          public static void main (String [] args) [
               int n=5, 2120, a2=1, 10
         ( ) : for ( int [=0 : i < n; i++) {
                        System.ous. print (al +" ");
                        int a3= a1+a2;
         · Mg 1 0 0 1 1 21 2 0(2) 1 1 10).
          1(11) : . . . aize au;;
          16011.0-6111
  Pattern (22)
public class pattern { "
        public static void main (String [] args) &
           int nes;
            for cint (=1; (<=n; (++) }
             ( to for ( int j=0) j <= i , j ++ ) 2
       ( in thing to men Systemous. print ( i);
                   system.out. paintln ();
```

```
Square / Cube.
      pubic
             class math &
                     static void main ( String[] args) ?
              public
                   float n= 0.6;
                   System. out. print In ( nª n)
                   System out printer (nanan);
              3
     3
                       It' - Warner I brick to a mint
29) Frequency:
imposit java atil. Arraysij nes ) toling to making
import java. util. Scanner;
public class ax &
         public ctas static void main (String [] augs) [
                   Scanner = input = new Scanner (System. in);
                () pint (a) () = new int () ( 1,2,8,3,2,2,2,2,5,13)
                   int t (); new int (a. length);
                 . int visited 2
                 for (int i=o; i < a.length; i++) {
                       int count = i;
                       for (int jo= it! ) j < a. length ; j++) {
                              if (a [i] = = a [j]) {
                                     count ++;
                                     t(j) = visited;
                              3
                       if (till= visited) {
          al gree la private ) tili = count;
                   for (int 1=p; ica. length; i++) {
               ( + ( + (i)) = visi ted) &
                   the strong system.out. println (aci) i"
```

```
public class square {

public static void main (string [3 args) {

int n=5;

char c= input, next(), char At(0);

for (int i=1; ic=n; i+1) {

if (i==1 ll j== 1 ll i==n ll j==n) {

System.out. print (c+"");

else

System.out. print ("");

3

System.out.print ln();

3
```