21. Write a program to print the pattern Input: Enter the character to be printed:% Max number of time period:3

```
Scanner input = new Scanner (System . in);
 char c = input. next (), charAt(0);
 int n=input. next Int(); } (+in->int in)
 for (int i=1; i (=n; i++){
   system. out. print(c); to valority of the many to me metale
                     Scanner input = new Scanner (System)
   System.out.println();
22. Find the year of the given date is leap or not
import java. util. Scanner;
public class ak {
     public static void main (String [] args)
      Scanner input = new Scanner (System in);
      System. out . print ("Enter year:");
      String year = inputinent(); () in I have the training and the
      String a [] = year. split ("z");
     string d= a [2];
      int num=Integer.present(d);
```

```
9f ((num %4==0 && num %100 !=0) || num %400==0)
           system.out.println("It is a leap year");
      else
          system.out.print [n ("Not a leap year");
                   The character to be
23. Find the number of factors for the given number
   Scanner input = new Scanner (system.in);
   int n=input.next Int(); de(2) remains were = traper
                    sirput. Caxe(), charke(o);
   int factors = 0;
    for (int i=1; i(=n; i++){
       of (no/0 ===0)
            factors = factors+1; 3 3(+1) => (1=1) and
    system, out . print ("Number of factors = "+factors);
    Scanner input = new Scanner (System. in);
    int n=input.nextInt();
     int factors = 0;
                         Fig the year of the given d
     for (int ==1; i(=n; i++){
      on of (n%1==0)
              factors ++; }
      system.out.print (factors);
   24. Write a program to print the given number is
      Perfect number or not?
      Scanner. input = new Scanner (system.in);
      int n= input.next Int (); () two trupps
      int factors=0; (0x0) sites now
      for (int i=1;i(n;i++)
```

```
if (n%1==0)
                 factors = factors + i; ]
     of (n == factors)
         System.out. print ("It's a partect number");
25. Write a program to print the number of vowels
  in the given statement?
 Scanner input = new Scanner (System in);
 String name = input. nextLine();
 ant len = name. length ();
  char a [] = new char [len];
  fint YOW = 0;
  for (int i= 0; i < len; i++) (" : 2 msq 200) Jairq - tuo . meters
      a [ ] = name · charAt (9);
      if (a[i]== a' ||a[i]== e' ||a[i] == 'i' || a[i]== 'o' ||a[i]== 'u'
        | a[i] == A' | a[i] == E' | | a[i] == D' | | a[i] == D' | | a[i] == V
           VOW= VOW+1;
 system.out.print In (vow);
                               System out print (con[1]);
26. Write a program to print consonants and vowels
   separately in the given word.
 Scanner input = new Scanner (System-in);
string name = input . next Line ();
 int len = name . length();
 char a [] = new char [len];
 cfar vow[]= new cfar[len];
```

```
int v=0; C=0;
   for (9nt i=0;i(len; 1++)
      a[i] = hame . charAt (i);
      if (a[]== 'a' || a[i]== 'e' || a[i]== 'o' || a[i]== 'o' ||
    a[i]=='u'||a[i]=='A'||a[i]=='E'||a[i]=='I'||a[i]=='o'
    11 a[i] == 'v') {
          vow[v]=a[i];
          Scanner input = new Scannor (Systemsin) = 1 (++V
     else {
          coh[c] = a[i];
        C++ :}
    system. out . print ("Consonants: "); (+++ (asb) 10 = + Jar) not
    for (int ==0;9(V;9++)
      System. out . print (vow [i]); ( == [i] ) )
    system. out. print ("In vowels; ");
    for (int j=0;j < c;j++)
    System.out.print (con[j]);
3 2/2004 Jap standard tang of mang of a strict
27. Write a program to print fibonacci series
  Scanner input = new Scanner (System.in);
  int n=input.nextInt();
   int al=0, a2=1;
  for (int i=0; i<n; i++)
```

```
System.out. print (a) + " wen stugar manos
         int a3=a1+a2; ()taIten.tugain tai
         al = a2;
                                    int factors = 0;
         a2= a3;
                             for (int i=1; i<n; i++) {
28. Write a program to find the square, cube of
  the given decimal number
  Scanner input = new . Scanner (System . in);
  float n=finput.next Float ();
  system.out.print('square: "+(n*n));
  system.out.print ("cube: "+(n*n*n));
29. Write a program to find the square, print the
 below pattern.
   Scanner input = new Scanner (System.in);
   int n=input.next Int();
   for (int i=i; i(=n; i++){
      for (int j=1;j<=i;j++)
         system.out.print (i);
      System.out.printJn();
```

30. Write a program to print the given number is perfect number (or) not.

Scanner input = new Scanner (System.in); meters int n=input.nextInt(); (SD+1D=80 tof int factors = 0; for (int i=1, i<n;i++){ if (n%i==0) if (n==factors = factors+i;) if (n==factors) the given decimal number System.out.print ("It's a perfect number"); float n= input . next Ploat (); system. out. print ("square: "+ (n'n)); system. out. print ('cube: + (n*nan)); 29. Write a program to find the square, print the below pattern. Scanner input = new Scanner (System. In); int n=input.next Int (); for (ant == i; i <= n; i++) { for (int j=1)(=1;j++) system.out.print (7); systemout opint In (); 30. Write a program to print the given number &

perfect number (or) not.