JAVA ROGRAMMING. 21. Write a Pragram to print the following

import Soura util. Scanner

pholic class Printpattern

int n= input. NextInt 1):

foor lint = 1: (LEO 3 1+4)

Pattern

-/-

% %

2

0/2 0/0 %.

NAME : S.V. TANUSHRI REGNO: 192321163 DATE : 29/07/2004 ASSIGNMENT NO: B Public Static Void main (Staing[] Orgs) Scannes input=new Scannes (System.in); Chan C = Enput. next(). ChanAt(0): for (int 3=1:32=1:3++) System. Out. Point (c): System. Out- Printin ():

```
22. Find the year of the given date is loop
   year or not.
   imposet joua. util. Scanner:
   Public clars ax
     Public Static Void main (Strang[] args)
     3
        Scanner input=new Scanner (3ystemin)
        : (": Enter year:") thise gear: "):
        String year = input. next():
        Sering at J= year. Split ("1"):
        String d= al 27:
        : (b) An I gave G. Parse Int (d):
        ((Coun: 1. 1==0 && num: 1.100:=0)))
                                 num 1. 400 == 0)
           System. Out. Pountin ("It is a leap year).
        esse
           Bystem. Out. Println ("Not a leap year").
       4
23. Find the number of Bactors Gos the
  given number.
  Byga
  impost souro util. Scannes
  Public Class factors
    Public Static Void main (String[] args)
       Scanner input = new Scanner (Systemin)
        int n = input. nextInt ():
```

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C++1 : (1=1:12 co)
           ?+ (n'1. ?==0)
              factors = factors + 1:
         4
          System. out. Point ('no: 8 factors:"+
                                     factors):
          3 canno input = new scannor (system.in):
          int n = input - next Int ():
          int factors: 0:
          (++ i : n = 1:1: = n : 1++)
             CO = = 9 010 79
                factors++;
            System. Out. Pount (factors):
        3
     3
Du write a program to print the given
  numbers is Perfect numbers on not?
  impost sava with scanner
  Public class Perfectnumber
  8
     Public Static Void Marin (Streing Torgs)
     3
       Scanner input = new scanner (system. in):
        int n= input. nextInt():
        : O = aroto + fi
        for (int i=15i2nsi++)
           ( 0 == = 1 % n) 7;
```

: 0 = excoop + mi

```
factors = factors + i:
       ( BE 01) +1
         System. Out. Pours ("It is a perfect
                                 rumber );
      3
   3
25. Write a Program to Print the rumber
  of vowers in the given statement?
  impost sour util. Scannes:
  Public Now Vowers
  5
    Public Static Void main (Streing[ ) angs)
      Scanner input: new scanner (system.in)
      String name: input. nextliner:
      int len= name. length():
       chan at J=new chan [len]:
       :0=000 tois
       for (int =0: ic den : it +)
       5
          atij= name. cha A+cij:
          ? (at: ] == 'e' | | at: ] == 'e' | | | | |
                 acij=='0'|| atij=='u'|| atij=='A'||
                 oti3=='0')
             : 1 + avov = avov
          System. Out. Printin (4000):
       3
   4
```

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26. Write a Program to print consonants
   and vowers Sebarater in the diven word
   : rennose. Litu. ouo; trogmi
   Public class Consonant Vowel Separates
     Public Static Void main (String() args)
         Scanner input = new Scanner (systemin);
         String name = "nput. next time (), vowers:"
                                 consonants:":
         for (charc: name. to char Array ())
            ("AEIOUaciou": index of (c)!=-1)
                      Vocoels += C+"".
                else wo
                   consonants + = C +" ".
             System. out. paintin ("consonants:"+
                               consonants. (James):
             System. Out. Paint In ("Vowers:"+
                                    Yourds. Escincy
          2
     4
27. Write a program to print the
   Ribonaci Series.
  impost java. util. Scannes:
   Public class fibonacci
      Public Static void moin (String[] augs)
         Scannes input = new Scanner (System. in):
         : (2) + nItusan . tugni = n ti
         int 01=0:02=13
```

```
S
           System. Out . Pount (a1+""):
            int a8= a1+a2;
            a1 = a2:
            02=08:
         4
28 write a program to find the source. Cube
  of the given decimal number.
  Impost Sava, utis. Scanner:
  Public class Sourcecube
  E
     Public Word Static Void main (String Jargs)
        Scanner input = New Scanner (System.in).
        : Citaditas n. tugni = n toolf
        System. Out. Pount (' Square: + (n * n)):
        System. Out. Print ("cube:"+ (n*n*1)):
      3
    4
```

C++1:011:0= +11) ROF

```
29. Psuggian to find the Breamency of each
   element in the array.
  : gombrot source tite source trogmi
   impost java. util. Map:
   Public dows Frequency Courter
   8
     Public Static void moin (Strang[] ang s)
      5
        "(MEDa= 21,2,8,3,2,2,2,6-1):
         maps integer, integer > freq = new Howhmap
                                             て>():
         for (int num: a) freq. put (num, freq.
                         get on Defoult (num, 0)+1):
         freq. for Each ( key, value )-> system. out.
                   Pountln(key+")"+ value));
      4
   74
30. write a program to print the given
   rumber is perfect rumber or not?
   import sava. util. scanner:
   Public Clark perpect number
      Public Static Void main (Staing[] args)
        Scanner input = new Scanner (System in)
        : () this trans : the this
         int +actors=0:
         (++1:00 (100 1=10 1 201) rest
```

it (n:1:==0)

, factors = factors+i:

if (n== factors)

System. Out. Paint ("It's a Perfect

number"):

4