## JAVA

## PROGRAMMING

```
1) houte a program to point the following pattern.
 import java. util . scanner;
 lublic dan Patterubinter &
       Public static void main[Muing[] args ] &
           scanner input = new scanner (system.in);
           Charc = input · next () · chan At (0);
           int " = jubit. nextlu();
            (++1, c, n = > ! ( = 1 +1) LOP
            system. aux. Printh (string. value of CC+ " "). repeat (i)
                                                       · trum (j);
2) Hind the year of the given data is leap year or not.
 import java. util. scauner;
Purlic dans hapyean checker t
    Rublic static void main (string [] aras) ?
       scanner Input = New scanner (system. in);
       dut year = duteger. presendlu Cinput. next().split("1") [2]);
      dy (year y. 1 ==0 ≥2 year y. 100 !=0) 11 (year y. 400 ==0)) d
      systemant. Brintle (" briven year is deap year");
       I else (
         dystem. aux. Printle (" viver is not leap year");
```

```
3) Find the number of factors for the given number.
import java util reamer;
Public class factor cauntor à
   Public static void main (storing [] args) &
   in ": new scanner (system.in). nextine (), factors=0;
   For (int 1=1; 1 <= n; 1+1) if (n vi == 0) factors+1;
    Mystem. aut. frinkly ("Number of factors =" + factors);
   lenfect number or not
import java. with scanner;
Public class perfect Number Checker &
     Public static void main [string L] orgo 1 d
     with n = new scanner (system.in). next (nt (), sum = 0;
     For Cint i=1; 12n; 1+1) if (ny. i== 0) Sum += i;
      à (n== sum) {
         System. aut. println ("Its a perfect number");
        J also d
         - rystem-aut. Printen (" Its not a perfect number: ");
     ላ
```

```
5) Bunt the num of vamels of given statement
import java. util. scanner;
lublic dan vound counter &
    Public static vaid madu (string [] arays) &
    int vous = 0;
    For ( char c: new reason (rystem. (n). Mext Line (). to char Arnay ()
     4 ("AEIOU aciou". Ludex DF(c) !=-1) 7am ++;
     system. out. printly (" Number of Vamels = " + vam );
      Y
 6) Write a program to print consonance a vamely separately
 in the given word.
 import java. util. scanner;
 Public class consonant Vamel Separator L
     Public static void main (string [] args) &
          scanner input = new scanner (system.in);
         string name = Input. nextline(), Namels = "", consonants = "";
         For (char c: name. to chardray ())
          . 26 ("VEION arion" jugero Eccs 1 = -13 namap + = C + " ")
            the consonants + = (+ "";
          system. aut. Bruntly ("(onsonants: " + (onsonants bun ());
          shipsen . or . brinter ( " sommer : " + sommer . prim ());
           Y
           J,
```

```
7) fibonacci series
impost Jana. util. scanner i
Public dan fibonacissarier
       Public Static Void main (String [] areys) &
       Scanner input = new scanner (system. 14);
       dut n = duput. nextint(), a( =0) a2=1;
       Jos (int 1=0; ich; it+) &
            system. aut prender (a, 4 "");
             ۵2 = ۵1 + (۵1 = ۵2);
 8) write a program to find the square, cube of the given
                                               decimal number.
  import java util scanns;
     Public class square cube {
        Rushic Static vaid main(string LI args) &
```

float n: new scanner (system.in). next Hoat();

system. aut Brinth ("Square number: "+(n xn));

system. aut · Brintlu (" whe Number: " + (n Kn Kn));

```
End the frequency of each element in the away.

import java. util. scanner;

Bublic class Frequency ounter {

Bublic static void main (string[] args) {

int[] a = [1,2,8,3,2,2,2,5,1];

map (integer; integer> Freq = new Hashmap <> C);

For (Int new: a) Freq. put (new, freq. get Ox default (nem; o)

+();

Freq. for Each ((key, value) + system.oux. Printle

(key + "1" + value));
```

SD) Perfect aumber on not.

import java. util. ranner;

Public clan Perfect Number checker i

Public ratic vaid man (regulary) angs) i

int n = new ranner (rystem.in). nextint (), sum=0;

For (int i = 1; i < n; i++)

If (n : 1 = 1) sum + = i;

If (n = sum)

system.aut. Printle ("It is a furfect number");

else

rystem.aut. Printle ("It is not a furfect number:");