JAVA PROGRAMMING [CSAO99]

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ASSIGNMENT NO: 2

11. Write a perogram cos moterias addition?

Import java. util. Scanner Roberow allet work sieder 8

Public Static void main (String[Jargs)

Scanner input = new scanner (system. in); int mat 1[][] = { [1,23, 85, 33]; int mat o [][] = [[] 0,33, [h,13]; int mat - Sum [J[] = new int[2][2]; int den = mat 1. dength; for ("n+ 9=0: 9 L sen : "++)

tox (int 3=0; 32 len; 3++)

most Sum [i][i] = most, [i][i] + mate[i] System. Out. Print (mot_sum [i][i] "It's

System. Out. Paintines:

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13. Write a program that would Bort a
  list of names en alphabetical order
  Ascending (ON) Descending.
  impost java. Util. Scanner
  Public clays name
    Public Static Void main (Stringe Jarga)
    5
      Scanner input = New Scanner (System. in):
      Storing aured = & "Banana", Apple: "carror");
       int sen = our. sength:
       Chan Onder = input. next (). ChanAt(0):
       if (onder == input. next (). char' A')
         for (int 3=i+1 : 52 ava. length: 1+1)
            (COXCEITROD) OTERAGNOD. [II reros) 7;
               Storing temp= owntis:
               = [ [ ] red = [ ] row
               courtig= temp:
           4
         elso ig (0000) == '0')
              C+ic mpnox. mas 1: itize tris con
                 B Carolis - compare To carolissis
                   Straing temp = owntil:
                   ancis = ancis
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conti J = temp:
        4
      System. Out. Point (n (Asorays. toStoring (asor)).
  4
mostes a program for motoix multiplication?
  Public class Mataix Mutiplication
  8
    Capric Static Void main (String I Jangs)
     8
       : 858-63-82-83-82-150met1=88-383:
        ENTEJEJ mat 2 = EE 2, 83, 84, 183;
        : [2][2] this was = mus toon [][] this
        C++1:2 <1:0=1 +1) ROD
          for cint 3=0:3>2:3++)
           8
             402 (int K=0: K>2: K++)
               matsum [i][i] + = mat |[i][K] mate[K][i]
           4
         3
         for (int 1=0:12:144)
            fox (int 3=0:3>2:3++)
               + [i] TiJmus tom) trived . two . masseys
             2
             3 c) atten-out-pointinc):
          3
       3
```

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15 write a program to print the following
  Pattern.
   111
   11
   1
 import sava. Utis. Scanner;
 Public class Point Pathern
    Public Static void moin (String [ ) args)
      Scanner = new Scanner (System. in):
      System. Out. Pount (" Enter the number to be
                                C : Karning
      int num = Scanner. next (ntc):
      System. Out. Pount ( Max Number of times
                                  : 6" total
       int max = Scanner. nexthres:
       C++1; xom=<1;1=1 +1) xof
         (++i:: = < i:) = (++)
           System. Out. Print (num):
          System. Out. Pointln ():
       24
       fox ("1+ "= max - 1: "= = 1: "--)
         fox(int i=(::)x=(::i++)
            System. Out Print (num);
          SARFEW. ONT. Bright 1010:
       4
```

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16. Write a program to pairs the special
  Characters Separately and point number of
  Special characters in the line?
  impost sava-util. Scanner:
  Public class Point Specialcharacters
  5
    Public Static Void main (Staing[Jargs)
     5
       Scanner input = new Scanner (34stem. in):
        : (1) snitten. tugni = 8 prints
        int sen = 3. sengencs:
        Charat J= new char [len ]:
        int 38=0
       FOI ( "IN F = 0 : 1 = 65 & & ati ]>= 90 1/05: 3 = 97
               80& atij >= 1221/atij = +8880atij>=57)
          atij= 8-chan At (i):
          14 (atij L=65880 atij>=00/ atij L=9760
                   atijs=1221/ atij = 4888 atij >=57)
          2
          else
            3P++ .
            : (Cija) triveg. tug. massy 8
          2
       4
       System. Out. Point In C'In"+8PJ:
    3
```

```
17. Write a program to print all the
  composite numbers between a and b?
  import sava. util. Scanner.
  Public class composite numbers
     Public Static Void main (Storing [ Jargs)
        Scanner input = new Scanner (System.in):
        int a = input nextint():
        iconstran. Lugar = d tai
         fox ( " = a + 1; " > = b; " + +)
           6UF C= D:
            €07 (90+ 3=1:35=6:3++)
              9+(90, 9==0) C++:
             94 (CL2)
               3 ystem. out. paint (1+""):
           4
18. write a program to print the Enverted
 Quel pyramid pattern?
  import jour. util. scanner:
  Public dans Paint Papramid
    Public Static void main (Staing [ J orgs)
```

Scanner Enput = new Scanner (Systemin):

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ich u= jubon. vestantes:
       そのっとうれまでこのこうとこいうー
          System. out. Paintin ():
19. Find the Mean, Median, Made of the away
  of numbers?
 impost saw. atis. Arrays:
  Emport Savarutis. HashMap:
  : got stave some tragmi
 Public class Statistics calculator
 2
    Public Static double calculate Mean (int []
                                      (andoers)
       Coodmun: munt tin rot
        return (double) sum/numbers. Length:
      2
      Public Static double calculate Median (intC)
                                  (umbers)
        Arrays. 8000 coumbers);
        int middle = numbers. length 12:
```

```
Co=== In whomse or sequence of
      networn Calouble) Chumbers [middle-1]+
              numbers [midde 3) 12:
  2
   600
     : Calbbin I was munt alduds I new tars
   4
2
        Static int calculate Model (int[] numbers)
  maps integers integer & frequency Map =
                        new Hoish Map > 2();
   Cord num: num bers)
     + requercy Map- Put (num - Brequency Map.
                 get Or Default (num, 0)+1):
   24
   int made = 0:
   int max Frequency = 0:
   for (map. Entry Linteger, integer 2 entry:
                 frequency Map = entry set )
    3
       it (entry, get value () ~ max forequency)
       8
          mode = entry, get Key ():
          marf requency = entry get value():
       3
     3
     return made:
    Public Static Void main (String[ Jargs
```

```
itt J numbers = 8102, 3, 4, 5, 5, 6, 6, 73;
     System. Out. Pointin ("Mean: "+ calculate
                    Mean (numbers)):
     System. Out. Printly ("Median:"+ Conculate
                       Median (numbers)):
     System. Out. Pourtin ("Mode:"+ Calculate
                        : ((wedown) sbor)
   4
4
Find the factorial of n?
import jana. util. Scanner:
Public Class Factorial
  Public Static void main (String[Jargs)
   8
     Scanner input = new Scanner (System.in).
      : (1) to the next into
      1= tac+ =1:
      C++1: 1=<1: 1=1 toi) cot
       8
         fact = fact *:
        System. Out. Pount (tact):
     4
4
```

12. Write a perogram to paint rectargle Symbol Pattern. Ctx44 import java. util. scanner: Public Clars Rectargle pattern 5 Public Static void main (String[] ang D Scanner=new scanner (system.in). System. Out. Print ("Inter the Symbol you want to use for the rectargle pattern:): Chan Symbol = Scannon next (). ChanAHO) 3ystem. Out. Pount ("Enter the number il : savore do int sous = Scanner nextines: System. Out. Print (" Enter the rumber of columns:"): int columns = Scanner. nextInt(): (++) exercise is this rot 407 (int 3=0: 3> Calumns: 3++) 5 System. Out. Print (Symbol +" ")= 24 348tem. aut. Pointln (): 4

4