CSA 0993 - Programing in java for Application Development. Reg no: 1928/108/ Nance: D. Dhavakasan Date: 26/1/24.

matrix addition Program.

Public class Matrix Addition &

Public static void main (string [Jasgs) &

Public static void main (string [Jasgs) &

int [J[J] nat = & & 1,2 &, & 5,3 & 5;

int [J[J] nat = & & 20,3 &, & 1,9 &;

int [J[J] nat - Sum = naw int (25 (25);

tor (inti = 0; 1 12; i+1) &

nat - Sum [J[J] + nat [PiJ[J] + nat 2[iJ[J];

system. out. Print (nat - Sum [J[J] + ");

3 & 5

Output: 3

Output: 4

Durite a program to print rectangle Symbol Pattern.

Import java. util. Scanner;

Public class rectangle patterns

Public aless 8 fatic void main (string proags) &

Scanner input: new Scanner (System. in);

System. out. Print ("enter symbol");

Char Symbol = input. nerfer. Char Afro;

8 ystem. out. Print ("enter rows and columns:");

Int row: input. nextent(), cols = input. Nextent();

for lint 1=0; 12 rows; 1+1){ for [: w] = 0; i /cols ji++) 8ystem.oul. Print (symbol+") System . Out. Print In1); Output: enter Symbol: * enter rower and volumns: 3 Program to sort list of nances an alphabetical asconding or decendrity. Import java. atil. Arrays; Import jova. util. Scanner; Public class Sort Names & Public static void now (string f) asys) Scancer input : new Scanner (system. in); String py and = & Banana; "Apple", "cased", "Jack"; Bystem out. Print ("order (A(D): "); char order = input-next(). chas Afco); Parays . Sort (ass. (a,b)->order = = 'A"?a. compare To(b): 6. ComparaTola); Arrays stocam larr) for Each (System. Out: Point (n); ? input. close(); Input: Order (A/D): A output: Apple Banana

Matrix mulliplication Program? e lass Matrix Multiplication & Public Static Void main (& tring (Josqs) & int PJ P Just 1 = ff 1,28, 86, 899; intfoff nato = { \$ 2.39, 4 + 1. 99; int 1915 rosult = new int (2512); for (int : =0; 822; i+) & for (intj =0; 312; 3+1) f for (int 6=0; k12; 14+) } result lijlij += mal i fijly * mat 2 [k] Lij; System. coul. Print In ("Nat Sum = "); for (:W. 1=0; 1/2; ++) & for Ont j=0; 12; j++){ 8 ptem out Print (resut fiffif+""); gepten out. Printine); write program print Pattern. Import gava alil . Scanner; Public class pattern Printer & Public static void main (string 1) augs) & Scannes input: new Scannes (8 ystem.in); System. out. Print ("enter number to printed: "); intx = in Pul. next Int (); System. Out. Print ("max number of fines Prints:"); vivo YZOG int n= input. next Int();

for lind i=1; i2=2 "n-1; i+) s int count = ix = n?: 2*n-i; 8 pstem. oul. Print In (string. value of (4). repeat (count)); & input. close(); Input: Enter number to provided: 1 mar number of times prints: 3. In Part in a util & separates separately and no. of character Import java. atil. Scanner; Public class Special character Country Public Static void main (stringf) age)? Scannes input = new Scanner (System-in); System out Proutin l'entes l'ine of tert: "); String 8 = in Put . nerffine(); 1 W 8P=0: System out Print ("Special characters: "); for (chas ch: S. to chas proay 1))} if [! character is Letter Or Dig: [(th))? SP ++; System. Decl. Printroh); 3 System. out. Paint [n['In Number of Special charactor: "+SP); enter al: no of fext: # * hello Special characters : # * Number of special characters: 2. vivo Y20G

to protect all composite numbers between Import java. atil. Scanner; Public class Composite Dumbers ? Public static void nam (string 17 angs) Scanner input - new Scanner (segstem. in); rut a = input. next Int (); int b = inpul- nortlat(); for (:wti=a+1; 1+b; 1++){ of (is composite (i)) {

System , oul . print (i + ""); Public Static boolean is Composite (int num)} ch (num 14) return folse; for (int := 2; 2 = Math. SqrL (num); i++)} Ef (mam 1. 1 = =0) schan frae; 3 3 rotuen false; input: 12 19 output: 14 15 16 18 cosite a program to privt investel full pyramid Import Java. ulil. Scanner; Public class invested Pyranid & Public static void main (stoing fJ ags)? That h = new Scanner (system. in) - next (n+1); for (in-i=n; i>=1; i--)& System .out. Pri W ["! repail (n-i)); System. out. Projut ("" repeat (i)); In Put: 3

find wan, nedian, node of array of numbers Import java. atil. *; Public class statistics & Public static void main Bfring 17 ages & 1 mt fJa = & 16, 18, 27, 16, 23, 21, 199; forays . Sorta); double man = forays, stoem(a). (Iverage (). or Elgero); System. out frintln! "Hean: "+ wan); double nedian = (a. long th 1.2 = = 0) ? (afa, length 12-1) + afa. long, /20: System. out Print In ("median: "+ median); a fa. length /2); Map & Integes, Integes & count Map: new Hosh Maps > (); rut mode = aloj; for (int num: a) & I'M count = count Map. mage (num, 1, 1 whages: : sam); if (court > count Map. get Dr Default (mode, 0)) mode = num; 3 system.out. Print l'mode: "+mode); 3 Output: mean: 20.0, median: 19.0 mode: 16. find factorial of n? Import java. util. Scanner; Public class Factorial & Public static void main (String L) asys) { Scanner input = new Scanner (System in); int n = input. nerfin (); int fact =1; for (inti=1; iz=n; fact = i++); 848 tom.out. Print n+ 'foctorial = "Hart); Input; 4. Output: 4 factorial = 24. vivo Y20G