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SUBJECT: JAVA

DATE: 26-07-24.

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```
1. Wrête a program for matrin Addition?
      Import java. uld. scanner;
      class Hello world &
      Public static void main (string = args)
           Scanner input = new
           Scanner (system in);
       int mat 1 CJCJ = {{1,23, {5,333};
       int mat 2 [JC] = { 2, 33, { 4, 133;
       int mat-sum [][] = newint [2][2];
       int len: mot 1. length;
       for (int i=0; i < len; i++)
          for (int j=0; j< len; j++)
            mat _sum [i][i] ]= mat 1[i][j]+ mat 2[i][j];
            system. out. print (mat_sum [i][j]+" [t");
          System. out. println ();
```

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2. Write a program to print rectargle symbol pottern
 class GFGE
      Static Vord print Rectangle (int n, int w)
       for (int i=0; ich; i+4)
        System. out. printer();
        for (intp=0; j<w; j++
        J==0||i==h-1||
J==0||j==w-1)
       system out println ("@");
        System. out. print (" ");
      Public static Voidmain (string ærgs [])
        int h= 4, W=5;
        Print Rectangle (h, w);
```

```
13. Write a program that would work a lest of names in alphabelical
  Order Ascerding or Descending, choice get from the user?
     import java . uld . scarner;
     class name
     Public static void main ( string [ ] args)
      Scanner input = new scanner (system . in);
      String world = { "Banana", "Apple", "Courot", "Radish", Jack";
      int len = au length;
       Than order = input. next (). Char At (0);
       if ( arder = = A')
        for (inti=0, iclen; itt)
          for (int j=1+1; j < ann. length; j++)
           if Carr [i]. compare To (arr [j]>0)
           string . temp = our (i);
           aux ct = aux cj1;
           our cj] = temp;
        System out println (Arrays. +ostring (our));
       else if (order == 'D')
        for (inti =0; i < len; i++)
```

for (int 3 = i+1; i 2 am. length; i++)

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El Carricis. Compare To (aux E) 3 (0)
    System. out. println (Arrays. tostring (arr));
Write Program for matrix multiplication?
    import java util . Scanner
    Public main
      Public void main (string [], args]
    Scanner input = new Scanner (Systemain);
       int y=input next Int();
       int c = input - next Int ();
       int mat iCJEJ = new int[xJEc];
       ind mat 2[][] = new int [r][c];
       for (intp=0; i Ly; i++)
         for (intj=0;j<c;j++)
         for (int j=0; j2(; j++)
```

```
mat 2 cross ] = input. next Inter;
   Ent suncici = newint [8][e];
  for (int 1=0;127; 1++)
   for (int j=0; j < ~ ; j+1)
   Sunciscij=0;
   for (intk=0; Kec; K++ discould be dies
             end that minuted special danalus in the line?
   Sum CiJEjJ=Sum [iJEjJ+(mat ciJEKJ* mat 2EKJEjJ);
   System. out. print (Sum E; JC; JA" 1+");
  System out println ();
Write a program to print the following pattern
    import java. It . Scanner.
    Public main
     Public static void main (string [s, args)
     Scanner out print ("Enter the number to be printed: ");
     int x = input. next Int();
     System. out. print ("Max Number offine Printed")
     into = input - next Int (1;
     for (int i=1; icn; i++)
      for (intj=1; j <= 1; j ++ ) {
       System out print (11);
     System. But. printh (1)
```

5.

```
System out. prose (1);
write a Brogram to print the special characters separately
and Print number of special characters in the line?
    import Java . util . scarner;
    Public main
     Public static void main (string(), args]
    Scanner Enput - new Scanner
    Strings = input - next line ();
    int len = S - length ().
    chan a [] = new Char [len]; At died of morardy a series
    for (inti=0; i < len; i++)
    ali ]=s-char Aj(i);
    if (ali3s=65 x & a Cije= 2011a [i] >297 & a Cij = 122
               11a (i] >= 4842 a [i] z=57)
       else
        SP++;
      System. aut. print(aci3);
      System. out. print In (. In' +SP);
```

hole a program to print all the comparile number belascen a and b? import Java, uld . Scarrer; Public main Public = Static void main (String [], args) Scarner input = new scarner (system. in); Porta = input. Next Int (); intb = input. next Dut(); for ("nt "-a+1; ic=b; "++) The c=0; for (int j=1; j <= b; j+4) System. out-println (if"); Write a program to print the Enverted full pyramid pattern; infort Java. ulil. Sconner; Public main Public = static voidmain (string [], args] Sources Enput enew Scanner Csystem - Engli Put n zinput next Int (): for (rnti=n; i>=1; i--) for (intj=0;j<n-1;j+4) System out pind ""). for cint K=1; K<=1; K++) system out print ("4");

```
Find the Mean, Median Made of the armay of
-70
         import - java ulit. scarner.
                                                     3 have + 1000
          Pullic main
ir
           Public = static world main (string(3, args)
          Farner Triput = new Scenner (system. In);
a (
          Int Q [ ] = { (6, 18, 27, 16, 23, 21, 193;
          int len = a length;
en
          Prt sun= 0;
ak
          for (int = 0; (clo; i++)
           Sun = sum +a [i];
          int mean = sumller;
          System. out printin ("mean:" + mean);
           for (intico; iclen; i++)
N
           (intj=i+1)5clen; i++)
            of (aci) >acj]
              inttemp=a[i];
             a Ci J=aCjJ;
             acjj=temp;
    a wedging baneary the baleaus will alked at morpard a stire
           for (int i=0; iclen; i++)
            if(len <2==0)
           & int mid slen 12;
              System out print ("median!" + a (mid -i)
              break;
           else
            int mid = (1en+1) 25
            System out print(mid);
            System out print (n("median" +a(mid -i));
            break;
```

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for (int 1-0; Felon; i++)
       for (int j = T+1; 5 = lon; 5++)
       Acacis==dclas
       System out println ("mode:"+aU3);
       break
Find the Jackarial of n
     import java - ulil. scanner;
      Public main
       Public = Static void mais (String (J, arg):
     Scanner input - new Scanner (system.in).
        Int n = input next Int (i);
       Int fact=1;
        for (int i=1; i <= n; i++
       jact = jact i;
       System. out . print (fact);
```