26/7/24 n. Matrix Addition public class Addition { public static void main (String[] args) { int mati [][] + {[1,2], [3,4]} ind matz[][]: {[5,6], {7,8]}; int mat\_sum[][] = new int[][][]; int len = matl. length; for (intizo; ix len; ite) {. for ( Ent j = 0; j < len; j+t) { los on j mat\_sum [i] [i] z mati [i] [j] + matz[i] [j]; System.out. print ( mat 3 () () + " 1); 2 Anna in our this 3 2 -me2a - me2 3 and Intring two mitties 12. Alphabet sorting public class Alphabet ? public static void main (String[] args) { Scanner input = new Scanner (System.in); String arr [] = & Banana, "Apple", "Carrot, Jack"]; int lenz our length; chas order = input. next(). charAt(0); if (order == Ai) Eng too morph for (inti=0; i<len; i++) { for (intj=i+1; j < len; j++) { String temp: our (i); arrid: arrijj avely) stemp

```
Systemout point ln (Arrays . to Storing (arx));
    3
    else if (order == 'D') }
           for (int izo; iclen, i++) {
                 for (int j = i+1; j < anon length; j +1) {
                       if ( arr (i), comparto (arr [j]) (0) {
                              Storing temp : ora (is;
                           are (1): are (jz)
                             arr (j): temp;
              System out . print(n (Arrays . to string (ore));
                        Collected and hard
     3
  natrix Multiplication
public class Muli
       public static void main ( String ( ? orgs) {
              int mat([][]= {[1,2], [3,4]]
              int mate[][] = [[5,6], [7,8]];
              int mat 3 (1 () = new int (2) (2);
             int len = matl. length;
             for (int [=0; [ < len; "++1) {
                 for (int j=0; j< len; j+e) ?
                      Sam mat(i) (j) = 0;
                 for (int k=0; k < len; k++) {
                     mats(i)(j] = mats[j](j) + mat([j](K)
                                                   mate [x] Fj];
                       · i, strand . . . (i) a
           System. out. print ln (mats);
```

public class (pattern ( 1/20) . yearly) allowing two maters public classtatic void main (String[] orgs) { for Cint i=1 2 1 <=n; i+e) 8 for (int j = 1 ; j <= i ; j + +) { system.out.print(x); The tent beginn System. Out. println(); for (int j=1; j <= n; j++) } for (intj=1; j<=i;j(++) { ((com) pricts as system out print(x)) System.out.porinteln()) acita multiple attorn public states void main ( string () orgs) ? Special characteri (6.1) : El El Lacon Dis pubic class special El facell a Milleton to pubic static void main (String [], args) { Scanner input = new Scanner ( System. in); String s= (input: next Line (); in len-s. length(); char all: new char [len]; (x) (i) Ent 15 p = 10 | (100 - Li) (1) (1000 for (int Too; iclen; i++)? a [i] = s. charAt(i); acijk=90 || acij>=95 & l if (aci), >65 & & acid a cij<=12211 a[i])24866 acik267)

```
else i
             SP ++ ;
             System out prind(a(i));
         3
    3
    System. out. prind In ("In" - sp);
 )
)
   Composite Numbers
16.
   public class Composite &
         pubic Static void main (String[], args) ?
              int a = 12 , b = 19;
             for (int i=a+1; i <= b; i++) {
                    int c =0;
                   for (int j=1; j <= b; j++) {
                         if (ixj ==0) {
                   if (c>2) {
                         System.out print (1 4 ");
                    )
              )
```

```
Inverted pynamid
public class pygramid &
     public static void main ( String [ ] angs) }
          1N N=5;
         for (int i=n ) 1>=1;1--){
                for (int j = 0; j < n = 1 ) ( + +) ?
                       System.out.paint("");
                 for ( ant K=1; K<=1; Ke+) {
                      System. out print ( a );
                 System-out println();
  Mean, median, mode
     class statistics ? ( ) in in fi
       public static void main (8toning [] angs) [
               int a[]= {16,18,27,16,23,21,193;
              int lenza, length, sum=0;
             for Cint izo; iclen; i+e) &
                   Sum = Sum + a [i];
              int mean = sum/len;
              System.out. println ("Mean: "+ mean);
             for (int iso; i < len; i ++) {
                  for Gairl; jeten ; jet) {
                         if a siss a coss) }
                             Intitemp = a Cis
                              a [i) = a [i],
                              a (i) = acts) temp;
```

```
)
for (intico; (clen; i++) }
          11 (len 1/2 = =0) {
                IN mind = len/2;
                System out paint ("Median" + a (mid +))
                break;
          else {
              int mid = (len+1)/2;
              System.out.print(mid);
              System.out. parinsin("Median: "+o[imix-])
              break.
         3
for (int 1=0; (clen; iee) [
      for (in j= i+1; j(len; j+1) {
             if (a(i)== a(i]))!
                   System.out.paintln("Mode; +a(i));
                  break
     ر
```