```
11. Write a program for matrix addition?
 Pulotic class Materix {
  Puletic States Used Main (String () 01998)
  Scanner input = nous Scanner (System . in);
  int mat I [][] = { {1,23, {5,333;
  ent mat 2[][] = [{2,33, £4,133;
  int most_Sum (][] = nous int [2][2];
  int lon + mat I . longth;
  for Cint i=0, i < lon; i++)
    for (ant j=0; j klan; j++)
      mat_Sum { i} [j] = mat 1 [i] [j] + mat 2 [i] [i];
     System. Out. prent Cmat_Sum [i] [i]+"(+");
  System. Out. printin();
3.
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13. Write a program that would Bort a list of
   panies in alphabetical order Ascending or
   Descending, choice get from the aser?
   Public dans Sort ?
     Public Static void main (Staing Agel])
    Scanner Enpet : nous sconner (System in):
    String are [] = & "Bourance", "Apple", "Carrol", "Rodish",
                     "Jack");
    ent dem = arr. longer;
    Char order = input. noxt(). Charat(0);
    if (order == 'A') {
      for ( lit i = 0', i < lan', i++) {
          for (int j=i+1; j < our. longth; j++) {
              It Cars [i]. (omposeto (arrillarges) 10) {
                 String temp = aux (i);
                  aux Ci] = our[j];
                  ars [j] = temp;
         System. Out. println (Arrays. to String (ass));
else if cooder == '0) [
 for (int 1=0; 14 bn; 1++) &
    for ( int j = i+1; j < arr. longth; j++) {
      it (ark [i]. Comparato (are [i])(0) {
         String temp = ara Ci];
 arr Ci] = arr [j];
         are Ci] = tomp:
  Sejetom. Out. Pouidle (Arrays. tostring (ass)).
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rer.

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19. Write a program for matrix multiplication,
                                             IF. Woods
                                             pastern.
 Public class Moutains &
   Public Void Main (string args []) {
   Scanner enput = neue Scanner (System. ein);
   ent Y = wipcot. noxt Int ();
                                              Pulelic
  uit (= input. nost. Ind();
                                                Pulali
  int most ICICI = now fut (v) [c];
  int next 2 CJCJ: New int CrJCcj;
                                                Jann
 ent
                                                 urt
                                                 int
  3 7 00 ( ( the (1) 100) 6 may men) [1] (40) +
 for (int i = 0; i < Y; i++)
    for (int j=0; jxc; j++)
    {
mat 2 [i] [i] = input. next Int();
y
int Sum [] [] = New int [v] [c];
for (int i=0; ixx; i++)
   for (int j=0; j<C; j++)
     Sam [i] (i]=0;
     for (int 1c=0; kCC; k++)
       Sam [i] [i] = Sam [i] [i] + (mat 1[i] [k] * mod 2 D)
      System. Out print (sum [i][i]+"\t");
     System. Out. Printlin ()',
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six

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15. Write a program to print the following Pattery
                                                     16. Wesite
                                                      Public
Public Class Pottern &
Pulatic Voied Main (String args CJ) {
Sconner input = new Sconner (System. in);
System. Out. Print ("Enter the number to be printed: ");
Unt x = input. nextInt();
System. Out print ("Max Number of time printer :");
int n = input. nextInt ();
for (int i=1; i <= n; i++)
   for (int j=1; j<=i; j++)
{
System. out. prent(x);
  System. Out. Printh();
   for (int j=1; j<=i; j++)
    System. Out. print(x);
   System. Out. prind(1);
```

Separa in t

Pulou

Scounn

Storing

int 1

Chair dut

for (

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ettery
       16. Write a program to paint the special Characters
         Separately and paint number of special characters
         in the line?
       Public class Characters ?
          Public Word Main (String ages []) {
        Scanner Enput = nous Scanner (System. in);
        Storing S = input. nextline ();
        int len = S. length ();
        Char a [] = new char[lon];
        dut sp=0;
       for (int i=0; i < bu; i++)
1);
            a [i] = S. CharAt (i);
            if (a Ci]>=65 88 a Ci] <=90 11 a Ci] >=97 88 a Ci] <=122
                 11 a Ci]>=48 44 a Ci] <= 57)
         2
                                 9 bine 9. HID , water
         elel
            SP++;
           System. Out. print (a [i]);
      System. Out. Printle ("\"+Sp);
```

```
17. Write a program to print a
 humbers between a and b?
                                         18. Wa
Pulatic class Composite numbers?
  Palotic Voted main Cotoring ango CJ 78
Scanner input = new Scanner (System. in);
int a = input nextInt();
bet b = input next Int();
for (int i=a+]; i <=b;i++)
   int C=0;
   for ( List j= 1; j <= b; j++)
     if (i% j==0)
          C++; >1100 00 20=4011 0 11
   if (c>2)
      Sgetom. Out. Print ("+"");
                 Sestan out patiet (a (13))
```

(12+" N/") White two metype

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18. Write a program to print the Invested Full
   pyranid Pattern?
   Public Class paramid &
     Palolic Valid main (String args (1) &
     Scanner input = nous Occurrer ( System. in);
     int n= luput. Next Int ();
     for (int i=", i>=1; i--)
        for (int s=0; j<n-i; j++)
          System . Oct. print ("");
        for ( but k=1; k(=i; k++)
          System. Out. print ("*");
        System. Out printino;
19. Find the Mean, Modern, Moder of the array of
  numleers?
 Public Clars Mean ?
   Public valid main (String argo CJ) ?
  Scanner Enpert = new Scanner (System. in);
  int a C) = 2 (6, 18, 27, 16, 23, 21, 19);
  int lon = a. longth;
  int Sum = 0;
  for (int i=0; i/ lon; i++)
                         IT I SUIGO IN COMPANIE
    Sum=sum+aCi];
  int mean = Sum/con;
System. out . println ("mean: "+moon);
```

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20. Find
                                         Pulvic
                                           Pellel
         int temp=aci];
                                           Sc on
        a Cij=a Cij;
for ( eint i =0; i klan; i+1)
  it (con % 2 == 0)
     lit mid = con/2;
     System. out. pount ("median: "+a [rid-1]);
                 Continued to most of
     ent mid = (len+1)/2;
     System. Out. print (mid);
     System. Out . println ("median:" +a [mid-1]);
     break;
                      ) week halow well.
      (=0; (Lou; 1++)
                    185.01.81.21.6.23.
  for(int j=i+1;j/(un;j++)
        System. Out. println ("mode: "+a[i]);
        breat;
    3
        : (word this wood") which two
```

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20. Find the factorial of n?

Public class Factorial {

Public Valid Main Cstoring args []? {

Scanner input = New Scanner (system. in);

int n=input. hext Int();

int fact = 1;

for (int i=1; iz=n;i+1)

{

fact = fact*i;

}

System. Out. print (fact);

3.
```