ARRAYS: - An array is a collection of similar data types.

Array elements are always stored in continuous memory location. if m is size of an array its subscript starts from 0 & ands with (m-1). It is a simplest linear data structure. TITLE MARKET THE declaration of an Array: terital (Fig.) was SYNTAX: int name [size]

Ex: int a[s] ATTOMATOR SUB-SCRIPT / IMDEX 5 main () - and my in transfer and the diff it is among the int a (3) = (1,2,3). frint ("1.d 7.d 7.d", a(0), a(1), a(2]); er i grand Establish (2014) April CM J " J. N" J Jani. ) main () tem may the 1 int 4[3]; Apparly of the "I deigh. 4[0] = 4; 11 (i) = 5; THE STATE OF THE A(2) = 6; fried ("1.0 1.0 1.0", a(0), a(1), a(2)) the second second > main () { int a [3]; frintf (" onter 3 elements") Scanf (" 1.0 7.0 7.0", LACO), LACID, LACED); frinth (" ? d 1.d 1.d", a (0), a (1); a (2)); 3. Committee for the board introduction of the lines.

a: Program to friend in numbers: ant Acroj, i, m; bruntf ("enter mil);" 1 1 1 1 1 1 1 2 3 4 8 1,1,1,2,1,1,1 scanf ("7.0", & m); fountf ("enter elements: "); for (i=0; i < m', i++) Sometime of the first of scanf ("7.d", & aci); Light James In Comis for (i= o, ix m; i++) " (Color later) seam fruit ("1.0", acid); Susseque Margaret 1. Program to find manimum element in an array (I mism the int m, i, man; (1) 1 (10) 11 (1) 11 (1) 11 (1) found (" Enter number of elements: "); scanf (" 1.d", 4m); int wir (m); EJA In friends ("Enter 1. d elements: ", m); E TOTA 2. 15/1% for (i=0; ic m; i++) scanf ("10", 4 doin [i]); max = 1007 [0]; for (i=1; i(m; i++) Amanda & astro to thing 4 (aur [i] > man) 在一个人,在12xxx,在10xx A Contract of the American man = wor [i] /(i) x " I x " I x " I will print (" Manimum element is! 1. d ( m', max);

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2. Program to find sum of average of an array
, int main ()
                                                                                 altered the Contraction of the
         t int m, i;
                                                                                                                  Contract in the Contract of th
                 float lum = 0.0, avg;
                    printly (" Enter number of elements: ");
                      scanf ("1.d", 4 m);
                       int arr cm);
                         fruit (" Enter 1. d elements: ", m);
                            for (i=0; i< m; i++)
                                    scanf ("7.0", a arm (i));
                              Sum + = art [i];
                                ang = sum/m ; my sign sales of the magnet of
                               foundf ("Sum = 1/4 (m"), sum);
                                foundf ("Average: 1. + 1 m", ang);
                                                                                                                                Satisfied him that
     -> int main ()
           lint num [5] = [10,20,30,40,50];
               printly (" The 1st element of an array is: 1.d (m); mum [0]);
               printf (" The 3rd element of an array is: " dim"; num (2));
                                                                                                    THE COLUMN TO
   4. int main ()
               int num [5] = [30, 40, 50, 60, 70]

printf (4 3rd element of an array is: 1. d\n', mum (2)):
                    num [2] = 55; wint of an wroy is: 7. d(m", sum num [2]);
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who say to discontinuous majoring
s. int main ()
   int mes num [5] = {50, 60, 70, 80, 90};
                        143 . 0.3 - min 1 m
   for (int )=0; 125; 1++)
   pant [" numbers [ 1.0] = [.d \m", i, num [i])
                           ( Carly 19 ) Live
                         o/p:
         number (0) = 80
                     ( number [1] = 61,
                mimber [4] = 90
                        EISTEN ST MICE
22-05-24
a:- Program to check even I odd for mi-numbers:
             The Comment of the Amily
   int a [20], i, m;
-> muin ()
    printf ("enter m");
    scanf ("1.d", & m);
                                 Committee
    bunts (" enter elements ");
                          established the
(1=0; iem; i++)
                        a knowle by the " book
  scanf (" 1.d", & acis);
     for (1=0;1.2m; 1++).
                                to continue to
       4 (aci772==0)
         printf 1"7.0 sis evenim", acis);
   printf (" 1.d is oddin, aci));
```

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> muin ()
                                                                                                                                                                           X+5 chill
                  ent a [20], i, m;
                   printly ("enter n ");
                       scanf ("1.d", 1.m);
                                                                                                                                                                         was all of a table
                       printf ("enter eleme number")
                        for (1=0; i2m; i++)
                                                                                                                                                              1 3 th 1 1 1 th 
                       · Scanf ( u. (. d", & aci));
                                                                                                                                                               11.60 / 10 10 10 10 100
                            for (i=0; i 2 m; i++)
                                                                                                                                                                     Child Entire
                                                  if (aci) >50)
                                                                     aci) = aci)-10;
                                                         else if (aci) < so) kk asis
                                                                     u[i] = a[i]+5)
                                                          elle.
                                                                         a[i] = a[i]+2;
                                                                                           . The Confidence of the Jay on
                              for (i=o;i/m;i++) v=(i)
                                 winth (" 1-d (m", aci));
```

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a: find average of n subject marks:
-> mun ()
  t int a [20], i, m, sum=0;
    float any;
                                        avray
                                         begget/smallet
    prints ("enter m");
                                    element finds
most found
     scanf ("1.0", 4m);
     frinity ("enter subject marks;
     for (i = 0; i < m; i++)
     scanf ("1.d", 4 aci]);
       for li=0; ich; itt dans man man mid an
         Sum = Sum + A(i);
         avg = (float) Sum / m;
      buntly ("1.f", ang);
                         inter which is a start to the
 1. Print smallest or higgest number in an array:
 -> main ()
     int a [20], i, m, min, max;
     fruntf ("enter in! ");
      scanf ("7.0", 4m);
      foundf ("enter numbers: ");
       for (i=o;i< m;++i)
       scanf ("7.0", & a (i));
       min = a[0];
       mon = a(0);
```

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plant to the on the service.
         for (i=1) i [m; ++i).
             ( nom < ( i)a) i
                                                                                                                                 armin American
                    max = a[i];
                    4 (a[i] (min)
                                                                                                                                              THE RECEIVED A
                        min = a[i];
         fountf (" Smallest number is: 1.0 in", min);
             fount (" Biggest number is:
                                                                                                                    1.0 (m') man);
                                                                                                                           Control of the Contro
2. To search an element in an array!
                                                                                                                         TO A to more Amus
 -) int main ()
                                                                                                                   which (told) a min
                     ent a [100], size, i, find, found;
                      founds ("Enter size of an array: ");
                       scanf ("1.0", & size);
                                                                                                                                                    and and they be
                      fruntf ("Enter elements: ");
                        for (i=o; icaige; i++)
                                    scarf (" 2d , 6 aci));
                                                                                                                                                   The tipling of the House
                             friendly ("Enter the elements to be searched: ");
                               scanf ("1.d", & find);
                               found = 0;
                                for (i=0; ix size; i++)
                                                                                                                                                              SATA POR
                                            if (aci) == find)
```

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if (found == 1)
prints ("1.d is found at position 1.d \m", find, i+1);

3 trints ("1.d is found at index position 1.d \m", find, i);
    printly ("7.0 is not present", find);
```