```
Assignment-I
Insertion Sort
                                                       Ca-1
Tinclude C state by
int wain ()
1
     inti,), anay (too), temp, n;
     printy ("Buter the no. of elements in Averay: ");
      Starf ( " fd", In);
      printf (" Enter the values of the array: ");
      for (iso; icn; it+)
            scanf (40/6d', garay[i]);
            temps array [i];
            wome (j >20 & g away [j] > temp)
                    avag [sti] = array[i];
                 "Glements after sorting: (n");
      for (i=0;ikn;i++)
            prints ("/dh", away [i]);
```

geturn 0;

Ass-II

Given an array het is assume that there can be displicated in the list in such a way that we get the highest index if there. index if there are districtes. Input # include <st dio.h> int main (). inti, s, n, auf[50], occup-0, dage=0; Parint f ("Finter the number of elements: 'ne"); Scary ("o/d", \$n)?
Printf ("Enter the values: \n"); 3 canf ("%d", pour[1]); for (iso ) (2n; i++)2 for (1:0; 12n; 1+) 2. for (jait); jen; jot+)? if (aurli] = = aur[j]) Stole = 5 byears Print ( " Number of duplicates occuped: %d\n", occur) prints ("Highest Index value is . Vod in", store); setwird; the the moved stake: 5 The 186 9. 1940.

Atput

1 oloments:

2) White a purgeon for finding i and s key such that A [j]2 + A[i]2 = key for an Give set Input Hindude (stdio. h> int main() int n, any [50], i, i, key; print ("Enter the averay sixe: "); scanf ("/d", fn); printf ("Enter othe elements: \n"); for (120; 1<n; 1+t) scanf ("old", pavor[i]); printf ("Enter the key: "); sang ("%d", 2key); for (120; 12n; 14+) for (j=1+13jkn3j++) if ( over[i] \* wor[i] + over[j]\* (ber[i] = printf (" pairifeund (%d 1.d)) n' section 0; the season of January Harrison Cutput Enter the away rike: 5 Earley the dements; May the le

bruad; 844 Junes & puous (Librus) (1) (1) (10) (10) (10) poured mod ") & trisung ( for [ ] ] tout [ [ ] mo ) [ [ ] ] = = [ ] (++x cury (1+ (=-1) was (++1:17[6]+13[) rof 2 (count==0) & (" [Sutes the rey: ");

Scarf ("6,4", 3/404))

Jore (100); cn; 144) (([1] 2000 & "p1.") thoo 5 3(+11: 12 16 021) rat ("" Elect of se streets; ("), (cub "poly) Kross (" : passa & on other alle 10 ! ) [ Luck Costanos chodisicastores, bein this () wow ( A sales < A rate - A rate [MA+[U]+[]+ AND AND HOLE N.6. 2. Ley in a souted oway A with district values . White

i (min ) HCF (a) 3) in the humber 1 9/04", mum Scout (46/0d %od"), &a, &b); Pariet ("Enter the Two numbers: Will main () & 15 (10/00 1- 0) MHCF (LUCO) LUCO) 1.0 / Findude 25tdio.h) 7 nduT 1 - ( HELL KERE ) 112 C 11 12 1 = NE ! UE : 31/2 T & roquer om of to chlhl 2 21418: 2523 mon aut 12/13 (O menton praint (" The ged of the law number is % d", a); Swax 39 (920 Sum = 00/0 b; (0=19) simon Scanf (" 64 " 64", 20, 86); pount ("Enter The Two nombers: "); שוירב מיף אסוום () main you the state 2 states in · smooth ray by to store of finding hind of prime implement store of common per The school presection which mode use of common preime white Entered Checking abouth mother of the organia Do simplement GCD wring the following 3 algorithm

1/en=21 FICE COASIONS & scaret ( defed fed "), &c. 8 & mache C'Elle Leitenstr (0==! % Tu) fi of the Commence of the (+115 84=>1624) Just The ged of the holo smile €14: 24 ¿ Z4 = Q < 14= 84 0 = 4 ( 1= 840 ( 1 ( 84 = 2 per der. H. to - " whole : 31415 WHOF CINT MIIND W. o'Meles should to mont 3 The god of the two numbers is sty 24141 21418 : wadmin ma m (noing) 1127-The Mark (1) My Mander precinity (" F. two The flow or (0==1,4.9. & 0==[%0)°fi ar a, b, same (--1;12(1;22;) rol Sele Addinha ( 12 3 ) The Ending wet of primes implemedassicis is I there divine out of A modify was (3 (1 thi) in a tipe . The broken algorithm The Her Cine of the said of Campaning And 

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et elements ; 5 refuen O; ([[i]D ("bolon) thursd ((" : 21 pouro bouro? n/") Judus)

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