INSTITUTE OF ENGINEERING ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

KUPONDOLE, LATTIPUR (AFFILATED TO TRIBHUVAN UNIVERSITY)



LAB REPORT

LAB NO.: 6

SUBJECT: C PROGRAMMING

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ROLL NO.: 019 DATE: 2078/03/ SUBAITTED TO:

DEPARTMENT OF COMPUTER & ELECTRONICS

```
WIAP to enter 10 floating no. in any array & display
#include <stdio.h>
int main ()
4
   int ?;
    float arrains;
    Printf ("Finter the value to be stored in the array: - In");
     for (1:0; 12=5; 1++)
     5
        printf ("In Enter the 1.d the element of the array: to",
                          (1+1);
         Scanf (Y.f", & orr [i]);
          (i=0; i<=g; i++)
     Printf ("1.3 flt", ar [1]);
      return O;
Output
Enler
     the In the flement of the array = 3
            the element of the array :- 4
Enter
      the 2
      the 3 thp
Fnler
                 element of the array :- 32
Frites
      the 4 the
                 element of the array : - . 4
Fntel
      the & the
                 element of the array: 26 &
FUTER
      the 6 the
Entos
      the 7 the
Enter
       the 8 the element of the orray:-
FIHIT
       the 9 the element of the array:-
Foter
       the 10 the element of the orray: - 6
 3.0 4.0 32.0 4.0 2.0 6.0 8.0.0.0 8.0 6.0
```

```
2.
```

```
of size 8 . & duplay
WAP to initialize one dimensional array
the sum & away of array element.
# include Kotdio.hz
int main ()
    3
       int err [100], n, i, s =0;
       Pront ("Enter the no. of element: ");
        Scanf (">d", 10);
        Por li=o', icn; i++)
        ર્વ
          print ("Inter a[xd]=", i+1);
          Sconf ("1.d", & artill);
      for ( 1=0; 1 <5; 9++)
       \mathcal{L}
          St= arrtij.
      Print f C'' Sum of elements = xd "sb
      Printf (" Average of elements = 1.2f", (Flood) s/n);
       return 0;
   3
```

Output

```
Enter the no. of element:5

Enter atij = 2

Enter o[2] = 3

Enter otaj = 5

Enter atuj = 6

Enter atsj = 8

Som of element = 24

Average of Element = 4.80.
```

```
WIAP to read list of no., sort them in ascending orders & print
the sorted listo
#inclode<stdio.h>
void main ()
  4
    ; tool I in Ini
     int noi, i, tomp;
     Printf ("Input the size of orray: ");
     sount ("1.2", en);
      Print f ("Input y.d element in the array: (n",n);
        printf ("Flement: ";);
        scont (">d", favre Til);
 For (i=0; icn; i+t)
      for (j=$+1; j<n; j++)
        ([771110 x([71110]) 77
          temp = arritil;
           CITLING = CITLING;
           air 17 []= Hamp;
      4
 Printf ("Flements of orray in sorted askending order: [n"):
 for (1=0; i(n; i++)
   ð
                                                Out put
     printf ("y.d", orr I[i]);
                                          Input the size of orry : 3
                                         Enput 3 element in the array.
     Print F ("101"");
                                         Flement:3
3
                                          Flement: 46
                                          Flement: 5
                                         Elennent of array in sorted
                                         ascending order:
                                          3 5 UL.
```

```
read 18t of no. of using function read (), sort them
asterding order using function sort () of display the sort list wing function
# include < stdio. h}
Hoid read (int TJ, int)
( (n tri, (600) To tri) troz-)20 bion
uoid display ( int [], int);
void mosn
 Ę
     int ation in noi;
     printf ("Forer n: (n");
     sconf ("y.d", (n);
     read (ain);
     asc-sort (ain);
      print ("Array in ascending order is: In");
      Asplay (a, M;
      geten (1;
 z
Moid read [ int al way, into)
   int in
   printf ("Number areln");
   for [1:0; ikn; i++)
     Scanf ("1.d", eatil),
      asc-sort (int across, and n)
  int I, i, temp;
   for Li=0; ixn-1; i++)
    for (j= P+L ', j<n; j++)
       if (a [8]> a [])]
          temp = otij;
           a(i)= a(i);
           at I = temp;
     3
  z
```

```
3

Void display (Int a Troot, int n)

int i;
for (i=0:, i<n:, i++)

printf ("Vd(E", a Tit);

3
```

```
WAP to read sq. matrix Eprint the same matrix by replacing its diagonal
elements by minimum value among the element of original metrix
Hinclude <stdio.h)
wild main()
 ٤
   int atioy tioy, n, i, j, min, max;
    brant E(" Order of matrix ? In ");
    Scanf C">d"&n );
    Printf ("Inter element of matrix: /n");
    for ( ?= 0; (<n; ?++)
    ર્
      for (j=0; j<n; j++)
            prints ("Tr.d)[r.d]: ",i,i);
           scanf ("/t 1.d", &a TiJ[i]);
     printf ("Matrix is /n");
     for ( ?= 0 , i < n , i++)
      for (j=0; j<n; j++)
          print ("/ヒパム", atil(j))
        print f ("In);
   3
 max = atottot;
  for (1=0; 12n; 1++)
   for (j=0; jcn;j++)
     (xom L (i) Ti) 7i
      max = otistis;
   else
     2 min = 0 TiT[];
```

```
· printt ("mutrix after putting maximum (n");
 for (1=0; 1<n; 1++)
     for (j=0; j<n; j++)
    it (!==!)
     ati)Tj)=min;
   Z
for (1=0; i(n; i++)
 for (j=0; j<n; j++)
       $ printf ("It 1.3", atiJ(j))")
       printf ("(n");
  geten ();
Out put.
 Order of mutrix ?
 2
Enter flement of mutrix.
TOJ (07: 2
P: LIT COT
8: 207 [17
8: [J] [J]
Matrix is
                         Mutrix after putting maximum
                                 8
   4
          2
   8
          6
```

Conclusion & Discussion

In this sixth lab of c programming. We were able to use theoritical knowledges of externy handling technique in C-programming.

Ne leavised to write the codes step by step in order to solve array handling techinque problems

to a program & execute & display a proper output.