INSTITUTE OF ENGINEERING ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

KUPONDOLE, LATTIPUR (AFFILATED TO TRIBHUVAN UNIVERSITY)



LAB REPORT

LAB NO.: 00

SUBJECT: C PROGRAMMING

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DATE: 2078

STRATTTED TO:

DEPARTMENT OF COMPUTER & ELECTRONICS

```
à file "filec.txt". The set
                    Pnto
                                                       of
                                                           choracters
are wead from the keyboard until on enter key is pressed
(use put cc) & get () function.
#include <stdio. hl
# include < conic. hx
# include < process. h.
void main ()
        char ch;
         EILK Atb:
         fp = fopen (" c : // Files // files. +x+ .", "w" );
         if * (fp = = NULL)
           printf ("Fror");
           exif(T);
         printf ("Enter any characters:");
         Af lush ( stdin)
         mpuje ((ch = det char()) i = , (u,)
             fput c(ch, fp);
           filose (fp);
           3.
```

```
unte nome, roll no. l'ayp
2. KIAP
         to
                                               of 5 students
            file nome "STUDFHT. DAT"
  a disk
  H include Estations
 H include < conio. H
 # justage & bussess . 47
  Struct student
    Ş
       char name trol;
         int mill;
         int age;
      };
     bion
           main ()
       {
         Struct student STSJ;
         int is
         ELSE *tb!
          for (=0; i(s; i++)
          ₹
           brutt ("tuter name");
            fflush (stdin.);
            gets (stij name);
            print ("Fater rolling");
             sconf (" y.d ", fsti] in 11);
             printf ( "Fnter age ");
             scant ("v.d", & stillage );
          4
          Fp = fopen ("( : 11 Files / STUD FNT. DAT", "w");
          if { fp = = NILILL)
             buyt ( "£ wor ");
             exit .(1);
         t while (6.5720 of (5707), 5.fp);
         tscope (fp);
         3.
```

```
3. KIAP to input & saw record like name, roll, address & obtained
marks of 48 students in a
                                binary file & search & display
the record of a student whose obtained marks is the
highest. The information should be aganized in a structure
# include <stdio. hz
H includo < conio. h)
the surply of the following the
Struct student
  Ş
    Char nama (507;
     int roll:
     thar add TsoJ;
     int mork ;
    word main ()
     ş
      struct student ST487. temp;
      int 1, 1;
       FILL * ED;
        printf ("Fater the data of students: In");
        for ( i= 0; i < 48; i++).
         printf ("Friter Home");
          fflush (stdin);
          gets (stillnome);
           Printf ("Fater Roll Number.");
          Sconf ("1.4" , & stil . roll);
           printf ("Fater Address");
          fflush (stdin);
           gets ( s Ti J. add. ];
           printf ("Fater Morks Obtained:"1);
           sount ("1.d", & st; J.mark);
        tp = fopen ("C: (1 file 11 dala.txt ", "wb");
```

```
it ( tb = = MALL)
   print ("Fror");
    6xit (1);
   brutt (" muting to tile In");
   ; (qt, bu, ( [072) to sxiz; 2) stimt
   + chose (fp);
    Fpt fopen ("(: " files 11 deto. 1xt", "rb");
    if (Fp+= KIULL)
      { printf ("Frror");
       3 6xit (1);
      print ("Receiving (ile In");
       freed (siste of (stot), 48, fp);
       for (=0; <48-1; j++)
           for (j=0; j<48-1-1; j++)
            if (slj°]. mark) slj+1]. mark)
             temp = STj];
                557= 557+17:
                ST j+1) = temp;
            3
        3
Print ( "Student with highest marks ?: In");
Print ( "Nome Roll Adress obtained marks in");
printf (" > 5 1.d % 8 1.d", stub-1]. name, stub-1]. non,
                              5 ( 18-17. add, stud-17. mark);
 Fiduse (fp);
 getch();
```

Output

Enter the dada of students.

Forey name: Rom

Foter Roll Number: 23

Enter Address: Ktm

Inter Marks Obtained : 88.

Finter name: shyamu.

Inter Roll Number: 43

Inter Address: ktm

Finter Morks obtained : 86.

Writing to file

Reading file

Student with highest marks is:

Mame Rell Address Obtained moorks
Rom 23 Ktm 88
Shyamu 43 Ktm 86.

```
Kd.oibtz > gbulim #
# Priclude < como. h>
# include < businty
# include < string. h>
  Structo author
   5
     Chur nume Trol;
      chur nation 7207;
       int books;
    З;
   wid main ();
   Struct. author asrzo]; az Tzo];
     Char dect 57;
      int 1=0; n;
       FILE +tp , xtptr;
       fp = fopen ("(: 11 tile 11 Authors txt", "w");
        it ( fp == MULL)
           printf (1'6 mor");
           exit (s);
       90
         print + ("Finter name ");
         gets (altitinome);
          prent f (" Entry nationality . ");
           fllush (stdint;
           gets (as [i] · nwion);
           printf ( "Fater no. of books · published .");
           scanf ("Y.d", & atij . books);
            1 = 1+1;
            prentf ("Type yes to continue or ony key to stop");
```

4.

```
fflush (stdin);
   alls (dec);
    while (stremp (dec, "yes") == 0);
 twole (as, size of (astos, of);
 t your (tp);
 printf ("Reading the tile --- In");
 t ptr = topen ("(: 1/ Files // Authors dxt:1, "r");
 it (Ebir== Vinil)
   { byutt ("Eucos);
      (1) fix9
butt ( " Enter the number of record ");
 Sconf ("x d", &n);
 tread ( as, size of tarket, i, fptr);
 printf ("The information of ridth record is ilntin);
  print fil "Nome rectionality No. of books publised In");
 printf ("7.5 $-1 .4-d", a2 Yn-1]. name, a2 [n-1] neution.
                              ; [ exbod. (1-n7 50
fclose (tptr);
 detch().
```

Discussion & Conclusion

In todays lab we learnt about date file of file handling in C programming. We used c-programming to create & store date permonently in the Asix. similarly. We were able to access the like present in the disk I were able to read the desired record. In a nutshell we learnt to create a file, write date inside it I also read date from it using c-programming.