INSTITUTE OF ENGINEERING ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

KUPONDOLE, LATITPUR (AFFILATED TO TRIBHUVAN UNIVERSITY)



LAB REPORT

LAB NO.: 9

SUBJECT: C PROGRAMMING

SUBMITTED BY:

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ROLL NO.: 019

DATE: 2078

\$[JB\\[JJE])J(O);

DEPARTMENT OF COMPUTER & ELECTRONICS

```
KH.Oibtz> 9 bulner#
H include < string. h>
struct. company.
 Ş
   (har Nomp Teat;
   Char Address T207;
    Char Phono no. Tact.
     int Nom;
 3;
struct company c.
 Void
      moin ().
  ક્
    print ( "Faker Name of company /");
     Aflush (stdin).
      goto ((. Name);
      printf ("Inter Address of company In");
       fflush (stdin);
        gets ((. Add);
        printf ("taker phone No. of company (n");
        fflush (stdin);
         gets (c. Phone No.).
         print f(" Enter total no. of Employee in company (n");
        sanf (").d.", & (, num);
         Printf ("The into of the company is In");
         print (" Mame It Address It Phone No. It Number of emplay)
         printf ("15/t 1.5/t 1.5/t 1.d", C. Momo, C. Address,
                         C. Phone HO. , (.Mon).
          getch();
   3
```

Out Pot

Enter Name of company S.R. Traders.

Enter Address of company Dhangodhi

Foter- Phone No. of Company.

7 Finter total No. of Employee in company

The into of Company. is.

Nome Address Phone No. Ho. of Fmployee S.R. Traders. Dhongadhi 041-575164 8.

```
th include < stdio. X)
H include < strong. h>
Struct Employer
5
    Char Mame TaoJ;
    Char add TzoJ;
     Char num teu]:
 3;
 struct Employee ET10], 1mp;
 Word main ()
 2
    int n,i, j;
     print ("Forer how mapy Employee: In");
     Scant (" ", & ", & n);
      print ("Enter into of x.d Employee In");
      for (i=0; i<n; i++).
  5
     print f ("Inter name of Employee: [n"];
     ffluth (stdin);
      gets ( F FiJ. Nome):
      print ("Inter address of Employer: In");
      fthish (stdin);
      gets ( ETIJ. Add);
       print + ("Fater phone no. of Employee: In");
        fflush (stdin);
        gets (Ett. num);
     3
   to: (1=0; i<n-1; i++).
    g. for (j=0; jcn-i-1; j++)
              if [ (strimp [F[]]. Nome, F[]). Nome) >0).
              5
                temp = FTJ ;
```

```
Out put.
Friter trow mony Employee
3.
Forter into of 2 Fmployer,
     nume of Employee
Fnlex
Rohit
Fater address of Employee
Dhangadhi
Enter phone no. of Employee
 9876543210.
Enter name of Employee
 Ramesh
       uddree of Employer
Entear
 Butwell
       Phone no. of Employee
 98888 44422.
The information of Employee.
                             Phone Mo.
Name
                Address
                Drondagy:
Rohit
                            9876543210
                              9888344422
                 Butwell
 Rumesh
```

```
include < stdio. h>
include < string. h>
Struct Employee
ş
    Char Mome TROT;
    Char add T207;
     Chas Nom TroJ;
 3;
word Read (struck Fooploy emp Teo), into)
4.
    int i,
     tor (i=0, i(n; i++)
     5
        buyl ( " Luter mame of Implates: /u ");
         fflush (stdin);
         gets ( emp TiJ. Nome);
         print f ("Finter address of Employee: In");
          fflush ( stdin):
           gets (emp Til. add);
           printf ("Follow phone no. of Employa: /n");
           fflowh (st din);
           gets (emp [i].num);
       3
       sort (struct Employed emp T20.7, int n)
   int (,1);
      Struct Employee temp;
      for (1=0; i<n-1; 1+1)
      5
          for (j=0;j<n-1;j++)
           f
             if ( (strip (emp TiJ. Nome, emp Ti+1]. Nome )) > ).
```

```
ર્વ
                         temp = emp[i];
                          (1+1) cm3 = (1) cm8
                          6m /2[1+1] = fourb.
                      ጌ
                   3
               3
        Ž
(ntai, tostama askaldmy forts) Kolding ping
7
   in+ i;
   Printf ("In None It Address It phone No. In");
   print { (" _ _ _
                                       - - .\n"),
       (i=0; i<n; i+1)
     1
       printf ("xs/t x.s /t x.stn", empTi]. None, empTij.
                        add, emptiJ. num);
        B
     3
Noid main ().
 ٤
     Struct Employee emp T20);
      intn;
       print f ( "Forter how many employee : In");
       scon ("y.d", En);
        print ( " Knier the into of I'd Employee In",);
         Read (emp, n);
         print f l'In The intermedien of a employee before sorting: ht];
         Display ( emp, n);
          sort (emp, n);
          point ("In The information of employee other sorting: la");
          Osablod (oubiu);
          getch ();
```

· tugful

Employ Filer how many Employee:

Finter into of 2 Employee

Folie name at a Employee Robit shrestha

Enter address of a Employee Kathmonds.

Fater phone no. of a Employee 9810000052.

Friter name of a Employee Romesh Joshi

Forter address of a Employee Maharajavny.

Forter phone no. of a Employer

The Ren information of a Employee offerthe Before starting Nume Addres s Phone No. Robit shestha Kulhmondu 3.810000065 Rumash Jushi Maharajung 9810062665 The information of a Employee Atla sorting Home C29166A Phone Mu. Rumesh Joshi Maharajung 38100 63965 Rohit shrotha Kathmandi 9810000062

```
Kinclude < stdio. H
# include < comio. h>
type det struct complex.
   int Real;
   int Imd;
3 combi
 comp Add (tomp (1, tomp (2)
  (omp sum)
   Sum. Real = (1. Real + (2. Real;
    Sum. Imy = C1. Img + (2. Img;
     return (sum);
 Z
(comp sub (comp (1, comp (2)
 5
     (omb Difference.
       Diffrenen Real: (1. real - (2. Real.)
       Difference . Img = (1 . Img - (2 Img;
       return (Difference);
Hoid
      main().
 5
       (omp (1, (2, sum, Bifference)
       print ( "Finter real & frog imaginary part for 1st complex no. /n");
        scant ("xd1.d", & (1, Red, (1. Ing));
        printf ("Friter real & imaginary port for 2nd complex no. (n));
        Sconf ("1.d1.d", (c) . Real, (2 fmg);
         Difference = Sub [ C1, (2)
          Sum = Add [ C1, C2].
         Printf ("Sum is y.d + 1.di/n", sum. Real, sum. Img);
```

41

printf ["Ditterna & v.d. 1.d."; Ditterne Real,
Ditterna Tmyl;
getch();

DU PUL-

Enter real & imaginary port for 11+ complex no.

Inter real & imaginary part for 2nd complex no.

Ditt i, 0+0;

```
#include <stdio.nx
A justings < comio. 47
Structe time
 Ţ
     int pur:
      int min
      int rec;
F..
Struct time ct, pt, sum;
Void moint).
Ź
   printf ("Enter prevent time: hrs: min: sec | ");
    sionof (" x 2 1. 27. d", & (t. his, & (t. min, & (t. sec))
    print ("Enter past time: hrs:min: sec 1,");
     Sconf ("y.dy.dy.d", & pt. hvs., & pt. min , & pt. see);
      Sum. sec = ct-sec.+ pt.sec;
      Sum. min = ct.min + pt. min.
      som. pus = c+. pus + bt. pus.
     if (sum. sec x=80)
         sumusec = sumusec-60:
          Sum. min : Sum. min +1;
       3.
      if (som. min >=60)
           Sum. min = sum. min - 60;
            Sum. min = sum. hrs. tl;
      trint ( "In Address petu too time is : /us. q presifq min:
           . I'd sechi", sum. hrs, sum. min, sum. sec);
         getch ();
     z.
```

Out but

```
Finter present time : hrs: min: sec

50
30

Timer post time : hrs: min: sec
41
30
30
```

Addition beto two time is:

```
# include < stdio. h)
Hinclage < structury. HT.
Struct time.
 ٤
     int has;
     int min;
     int sec:
struct time ct, pt, diff;
word moin()
 ક્
     bring { ("Enter bureuf time : prz : wiu : re( |u,,);
     Sountf 1" 1.d 7.d 7.d", & ct. hr, & ct. min, & ct. sec);
      bullt.
      Sconf ["
       if (pt.sec > ct.sec)
       1
           Ct. sec = (+ sec + 60)
            (t-min = ct. min-1;
         diffiser = ct. ser- pt. ser;
         it (pt. min > ct. min)
          5
              Ct. min = (+. min +60;
              ct. hrs = ct. hrs -1;
           3
          diff.min = ct.min - pt.min;
           if (pl.hrs.>cl.hrs)
               (1. hrs = (t. hrs + 24;
          diff. hrs = ct. hrs - pt. hrs;
          printf("In Difference bett prevent & Part time is: In,
               1. d hrs: xdmin! ded In", diff. hrs, diff. min,
                                             9:41 -26()
```

```
getch();
Š
     Oct put
Enter prevent time : hra: min: sec
4
 30
 30
Foler past time: ha: min: sec
 2
50
σε
 Difference potu brosent & bast time in:
  1 hrs; 40 min: 0 sec.
```

Discusion & Conclusions.

structure in a programming. He coded different type of program. He learned that structure as nothing but a group of variable of different dutobase of data type represented by the single name.

He cool concluded that structure is a user defined data of different type together. Structure help to construct a complex data type which more meanighed In structure, data as stored in form of recods.