Ex. No.: 12 Date:

File Organization Technique- Single and Two level directory

AIM:

To implement File Organization Structures in C are

- a. Single Level Directory
- b. Two-Level Directory
- c. Hierarchical Directory Structure
- d. Directed Acyclic Graph Structure

a. Single Level

Directory

ALGORITHM

- 1. Start
- 2. Declare the number, names and size of the directories and file names.
- 3. Get the values for the declared variables.
- Display the files that are available in the directories.
- 5. Stop.

PROGRAM:

include = steller. h.s

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include = graphics. h.s

void main()

int gd = DETTECT, gm, count, i, j, mid, cir = x;

char fram [1.0][20];

initgraph (& gd) & gm, "C:\\tc\\square\");

cleardorice(),

setbkcolor(green);

Puts (" Enty the numbers of file

scanf(" Hod", & count; i++)

clear durie(),

setbkcolor(GREEN);

fruit ("Enter the fet ". d", it);

man (" " " " " frame [i]);

setfillstyle (1, MAGIENTA);

mod = 640 / Locunt; cir_x = mid/s;

Lar 3d (270, 100, 370, 150, 0,6);

settest style (2,0,4);

settest style (1,1);

outtestyle (1,1);

outtestyle (1,1);

for (j=0; jc=i, j++, cir_x+=mid),

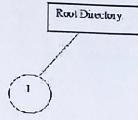
lim (320, 150, cir_x, 250);

fillellepse (cir_x, 250, 20, 30);

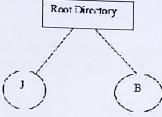
outtestyle (cir_x, 250, frame [j]);

y

OUTPUT: Linter the Number of files 2 Enler the file! J



Enter the file2 B



Enter the no of files: 2
Enter the name of file: A
Enter the reame of file 1: 19
Enter the reame of file 2: B
Enter the size of file 2: 15

Files in the Directory:
Name Dige
A 19 Mg
B 13 Kg

b. Two-level directory Structure

ALGORITHM:

- 1. Start
- Declare the number, names and size of the directories and subdirectories and file names.
- 3. Get the values for the declared variables.
- 4. Display the files that are available in the directories and subdirectories.
- 5. Stop.

```
PROGRAM:
 ## include states. R)
 ## include conflhies A>
 street tra- element
( char name (20);
 Think (53); toplay struct tree-element node;
  waid main Ur
  not = NOLL; Chrsu ();
   custe (& root, 0, "null", 0, 650, 320).
    elser ();
   initgufield gd, & gm, "c:116clibgi");
   display ( root);
    getch ();
    closyraph (1,
  exate (not " root, int less, when "drom, int la, int rax, int ?)
  if ( * not == NULL)
     ("root) = ( rode*) mallor (size of ( node)).

frunty ("Enter name of dir (file (under "1.5):", dname ); fflush (stein);
gets ((" root) > name);
      of (les ==011 les ==1).
       (+ 100H-) fly =1;
                                      79
```

```
(* noot) => flyhi=2;
                (+ nost ) > level = lev;
                ( nost) = y = 50+ ler 50;
             ( + root ) = la = la;
            (*nost) -> 12 = noi!
              for i=0; ics; itt)
                    ( nord ) > Line [i] = NUL;
                of ((* noot) = Pyth ===1)
                    if ( her == 0 1 ler == 1)
                if ((+ root ) -> Cercl == 6)
                 frients (" How many runs");
              fruits (" How many files"),
fruits (for 1/65) (* root) > name),
        3 scanf ("0/0d", & (* root ) > no).
            dsel(+ noot) > nc = 0);
             if at nost ) > nc == c)
                gh - re-lai
               gaf = (rx-la) ((troot) >ne;
            for ( i = 0; i c (* root ) > nc; i++)

create (& (* root) > link ( i)), lev+), (* root) ram, loc+pf *i, loc+ gf*1 yet, larger *i

for ( i = 0; i c (* root ) > hink ( i)), lev+), (* root) ram, loc+pf *i, loc+ gf*1 yet, larger *i

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for ( i = 0; i c (* root ) > hink ( i)), lev+), (* root) ram, loc+pf *i

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for ( i = 0; i c (* root) > hink ( i)), lev+), (* root) ram, loc-pf *i

for ( i = 0; i c (* root) > hink ( i)), lev+), (* root) ram, loc-pf *i

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for ( i = 0; i c (* root) > hink ( i)), lev+), (* root) ram, loc-pf *i

for ( i = 0; i c (* root
                                                                                                                                                                                                                                                             TOA W,
     gy ( + nood ) = nc = of
         defly (note * root) 5
          inti
        satistiff (2,0,4);
       settentstyle (1,1); setfillstyle (1, BLUE);
         setolor (14);
      if ( root! = NULL)&
        for (i=0; i croot > nc; i++)
            Lim (root 2x, root 3y, root 2 link (i) px, root 2 link (i) 2y);
         if ( noot ) figh == U bar 3d ( noot > x - 20, noot > y > x + 20, noot > y + 10, 0,0); else
            fillelifs (not > x, not > y, 20, 20); outled y (not > not > y, not > nome);
              for ( i=0; ic nost = ne; it+)
3 y distley (poot slink CiD);
```

Sample Output:

Enter the name of dir/file(under null): Hai How many users(for Hai):1 Enter name of dir/file(under Hai):Hello How many files(for Hello):1 Enter name of dir/file(under Hello):welcome



Result:

Thus the implementation of fell organization technique for single level and two level directory has been executed successfully.