Ex. No.: 12 Date: 24-04-25

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.
- 4. Display the files that are available in the directories.
- 5. Stop.

PROGRAM:

Include establishor

Include establishor

Put main () &

int ga = DETECT, gm, count, i; J, mid, eir_x;

Chou frame [co] [20];

int graph (ingd, & gm, "c, 1) text bg; ");

Close device ();

set bk dir (funn);

put ["Enten the no of fells"];

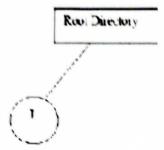
Scarf ("9.d", beaut); 76

```
for (i=0; ? a count; "++) {
    Char derice (1;
    SU bkodor ( GREEN):
    puint F("Enter the file ", od name", 941);
    Scanf ("%,s", frame [i]);
   Set fillstyle (1, MAGENTA);
   mid = 640/wunt: dr-4 = mid /3;
    barsd (270, 100, 370, 150,0,0);
     settinx style (2,0,4);
      Setter tymotify (1,1);
       Outerx+xy ( 320, 125, " Roor Disectory"):
        Setcolor (BLUE);
       for (J=0,7 ==, J++, ur-x+=mid) {
               LPne (320, 150, Ur - 4,250);
               fillelipse (Gr_x, 200, 30, 30);
               outurtxy ( cir -x, 200, frame [17);
```

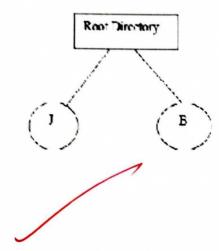
OUTPUT:

Linter the Number of files

Enter the file! J



Enter the file? B



b. Two-level directory Structure

ALGORITHM:

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

PROGRAM:

```
#Proclude Lstdio. h>
                        : ([1] want on how) polyit
# include equaphics. h>
Struct tree element
3
  chair name [20];
  Int x,y, ftype, 1x, xx, nc, lovel; stouttone illement
 * Whk [5] 3; type out Stourt teme_ Menent mode;
 voia maint) {
         PAR gd = DETECT , gm; node to root;
           MUDT = NULL ; CLYSULU;
          eresta ( b mol 10, "mll", 0, 630, 320);
           Un sor 1);
           Par graph ( & gd , & gm; ".e: 11 tc 11 bg; 11);
            display ( most);
             get ch ();
               clase graph (1;
```

```
realeshood + + root, unit Gor, when I name int m, Ent roy
  int 1, gap;
 ( Froot ) = ( node * ) mallo c ( siee of ( node ));
 prints ("enter name of dis (fib ( under 1.c): ", know);
  flush (Stolin)
  gets ( * 200+ ) -> hame);
   if '( har = 011 mg = =1);
   else
   (4 moot) -7 ftype =2;
   ( troot ) -> level = rig;
   (+rook) =7 y = 80 + run + 50;
   (ずかり カマンカド)
    for (1 "scor) -> ftype ==1)
     pf ( oug = = 0 11 Lev= =1)
      of (( * owot) -7 Level ==0)
     printf (" How many usuro");
  else
     printfl " dow many files");
    printf (for 1.5); (700) 7 -7 hom);
  else
       47001 -3 hl=0;
   'n
   duplay (node * not)
```

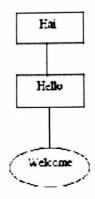
P

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```
if (2004 1 = NULL)
  for (1:0: 1000+ -> nc; 1++)
 £
   Him ( 2001 -> x; root -> y, root -> x, rook -> hule [3] -> y)
3 if ( noot -7 v, soot -7 v, root -7 linke [i] -74);
  +mulga (noot -> 2, root -> y, root -> name);
   for (1:0 , i < root -7 nc; 1++)
      display ( soot -> Link [i]);
                                    The Express in which ? A.
                                        tarnels such than I'm
    formals worthands; but, in, xr, els eques, y, v our
     There tweels went trust his egg I I I I think to
                                            3 Chillians Willy
                took the time, I TETE the tox
                         : () and other room - room
         Create the sail so, " was ", o, 6 to the total ?
     : ( " yet n + 1 n - 5 " my - 5 . he de many toy
                                  three I pulpak
                                11) dipage and
```

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



W

Result:

This the file organization technique shops and two level discretely and meeted sacrifully.