```
Ex Mic 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 Discourt
      h Two-Level Directory
    c. Hierarchical Directory Structure
       d. Directed Acyclic Gosph Structure
 2 Single Level
Directory
ALGORITHM
    I. Sa

    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. Stin.
PROGRAM:
 # Include Landin.hy
# fretide (stallib.h)
# from de Lorapics. h>
 int (modes) i
     fit gd = DETECT, gm; count, i,j, mid, cir-x;
      inos. frame[10][20];
      Pritgraph (29d, 29m, "c: 11tc 11bg1"");
```

puts (" Enter the number of ettes");

clean device();

set bridger (Gyann);

sconf ( 1 % d ", 1 count ),

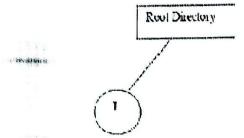
```
Hon ( 100; Cocount ; 141)1
         clean device (1;
         t ( Marga) relooded to e
         parinte("Enten the Fre vid name", (41);
          seant ("v. s", frame p'D;
          ad Allayabe (1, MINGENTA);
          mid = 640/ count; clarx = rold/8;
          oca, oz, ore, ooi, ore) be used
          3 ellemyle (2,0,1);
          settextiustry (1,1);
          outlevery (300,125, "Root Directory");
          setulor (BLUE);
          fool (7=0; 9== 1; 3++ , 5701 -x+ = mid) {
                    the (320, 150, clot, x, 250);
                     #illelliper ( clr->, 250, 30, 30);
                   outlentxy(cir.x, 250, fnameci3);
```

3

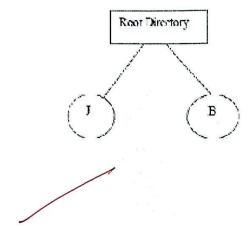
# OUTFUT:

Linter the Number of files

Enter the file! J



#### Enter the file? B



## t. I wilered directory Structure

### A COMMEN

- I Sat
- Declare the number, names and size of the directories and subdirectories and file names
- 3. Get the values for the declared variables.
- Display the files that are available in the directories and subdirectories.
  - 5. San

Į.

#### PROGRAW-

```
# Include < Section 1/2

# Include < Section 1/2

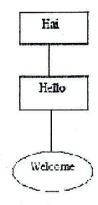
* Include < Section 1
```

```
asteate ( node ** stoot, fint lev, about *diname, int 1x, int six, int x)
 1
     mt
         i, gap;
      14 (* LOOF == HOLL) 5
           (*Moot) = ( mode *) mallo c (Street (node));
            parint f("enter name of dist/file (under 1.5)", dname); foliush (etin);
             gets (troot) -> name);
              12( lev == 011 lev == 1)
               (4 root) -> ftype = 1')
               else
                (*800+) > ++4 pe = 2;
                  (* root) -> level = lev;
                 (* root) - y = 50 +lev * 50;
                 (* *00H) > x=x;
                 (*800t) → (x= k;
                  (*+00+) -> YX = YX;
                  (++7, '2×3, '0=3) kof
                      ( * root > -> linkei ] = NULL ,
                       17((+300+) -> ftype ==1)
                           if (lev == 0 | lev == 1)
                              14 (( *root ) -> level == 0 )
                                printf("How many users");
                              plse
                                  phints ("How many siles");
                                   painte ("(for 1.5);", (*root) -> name);
                                   scarf ("1, d", 2 ( * root) > n ();
                                 else(Arout) -> nc = 0 ',
                                 P# (( * 100t) -> n(==0)
                                 gap = TX -1 x 's
                                 else
                                   gap= (xx-1x)/(*9001) >nc;
                                  8001(1=0; (<( * 800+) → n (; (* 4+)
                                  · couate (+ (+root) -) linkery), lend, (+root) ->
name, 1x4 eyap +i, 1x4 gap +1 + 9ap, 1x4 eyap +1+ 9ap/2
```

```
3
 else
  (* root ) ->n(=0',
3
display (noder root)
 1
    int i's
    settext style(2,0,4);
     s attext justify (1,1);
      etfillayle (1, BLUE);
      setcolos (IA);
      14 (HOOF ! = NUIL)
               Ine (root > x, root->y, root->link Eiz->x, 900t->link Eiz->x);
       € food ( 6=0; (<100+ >ne; (4+) &
          17 (400 € -> $44/Pe == 1) box 3d (400 € -> x - 20, 800 € -> x + 20),
          3
               Printiper(>× , 4001 → V, 20, 20); out tentxy( 7001 →×, 4001 →),
              4001->410,0,0); else
                 400t->name); fox((=0; (< 400t->nc; (++)
                  Edpsplay (400+ -> link[i])
               ટુ
               3
             3
```

#### 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 phogram executed successfully.