Ex. No.: 12

Date: 26/4/25

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:

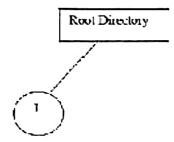


```
# include 25 Adia L7
# include Zstockeg. h>
Stud File 1
        chus namitros;
4;
int main (14
       int noi;
       Shurt File file LSOJ;
       prints (" Enter The number of file: ");
      Sconf (" " a " dn);
     get chas ();
     for (1:0; 12n; i++) h
             print ("Entir the name of the file "d:", iH);
            f gets (filu · [i]. name, size of (filu [i]. nome),
            filu (i). nam [ Shin ipn (file (i). nam, "In") ]-170";
     y
    Print[ " | n - - bingle level directory Structur = -- In ");
    print (" Foot binday In");
   for (i=0; i < n; itr) {
             print/(" |n --> 1/. )\n", files [i] . rano);
  sutur 0;
```

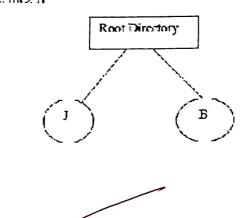
3

OUIPUI:

Linter the Number of files 2 Enler the file! J



Enter the file 2 ${\bf R}$



b. Two-level directory Structure

ALGORITHM:

- 1. Start
- 2. 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.

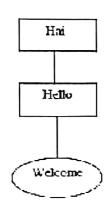
PROGRAM:

```
# include estdio. h>
# include 25 wing. hy
Street file &
      char name [20];
sauct birulong &
      chai name [20];
      Show file file (10);
      in bile count;
  int main 111
        chas soot [20];
        in Usus Count;
        print ("Ente the name of dis /bile:");
        Sion/(">: 5", seot);
       print ( "How many were (for 1... ): ", root;
       Scort ("1.d", 1 um Court);
       Short Rindow Ums [107;
       for (ind i= >; i) um low; i++)4.
                print (" Entir nom q dis/file (under 7.8: ",in,
                                                      root),
               Scarf (" "/. s", www [i]. rome);
              print (" bow many files (well 1.2.).".
                                              unes CiJ. non );
               Econ((" /.d", & well[i]. file (-coul-);
               for Cirtj:0;j Z accor [i] file Gent, jor) h
                     plint ("Ente neme 9 bile / dis (walu %)
                                     : ", j+1, weus[i], name);
                    scon/ (" ". de ", mm (, T. bi-les [j]. none);
               4
         print ("In -- two. level bis ton Structure -- In")
        peint (" 7. sln", soot);
```

βοι (int i=0; iz www count; it+)/ print β (" \n --> "/.δ \n", www [i] · nonce); for (int) =0; j z www [i]. pile (count); στ)/ print (" / \n --> °/. α \n", wwws [i]. files (j]. γοίπο);

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



All

the program to implement file Organization Structure of both single bull brinching A two lund builtony have bur done munipulay.