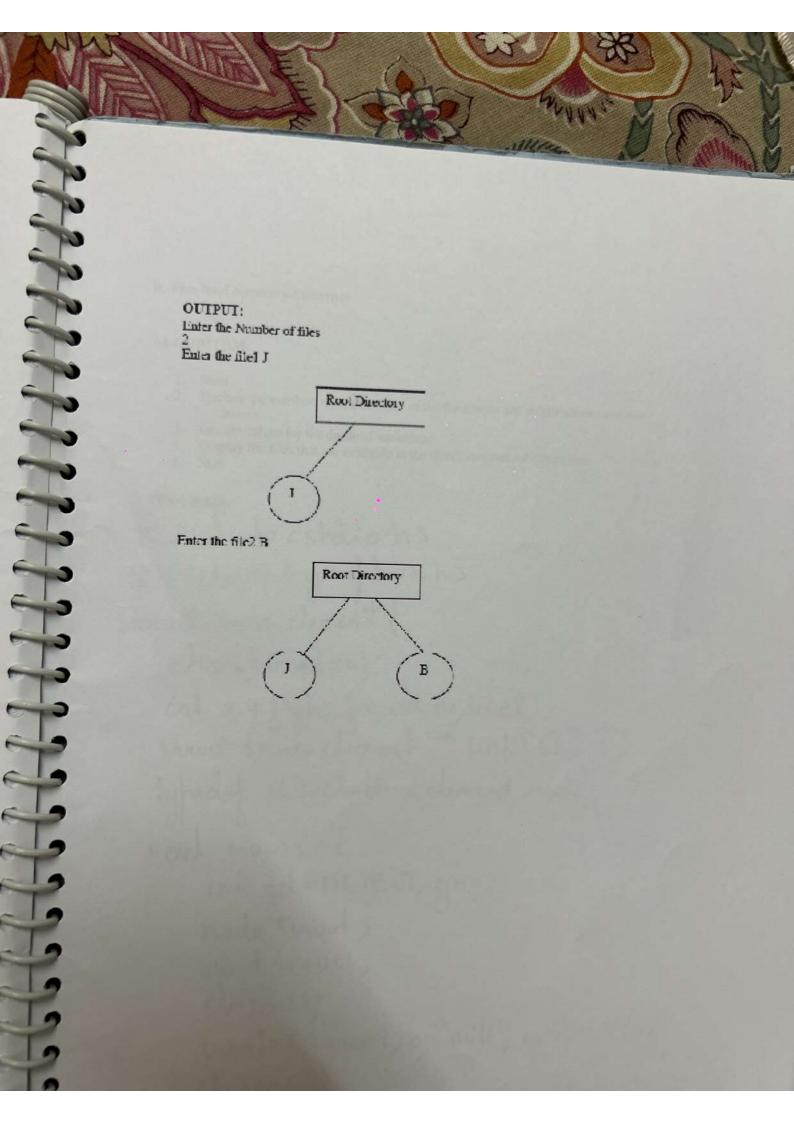
Ex. No.: 12 File Organization Technique- Single and Two level directory AIM: To implement File Organization Structures in C are a. Single Level Directory b. Two-Level Directory Hierarchical Directory Structure d. Directed Acyclic Graph Structure a. Single Level Directory ALGORITHM 1. Start Declare the number, names and size of the directories and file names. Get the values for the declared variables. Display the files that are available in the directories. 5. Stop. PROGRAM: # include 4stdio.h> # include LSfdlub.h> # include & graphics h> void main UE int gd=DETECT, gm, count, i, j mid, civr-x; char frame [103[203; initgraph [Egd, 2gn, "c: 11tc/bgi"]
clearderice (); set bk color (Green); 76 juls ('Enker number of files');

5 (and ["/.d", & count); for (i=0; ic wurl; i+t) { clear device 13% Sct bt woor (GREEN); print ("Enter file"). d name", iti); Scanf (11/1, 5"/ frame [i]); setfulstyle(,MAGENTA); mid = 640/went; cir. x = mid/3; bar3d(270,100,370,150,0,0); sethatstyle (2,0,4); set text justify (1,1); outleatory [320,125, Root Directory") setworlBLUE); for (j=0/jc=i/j++, cirse +=mid) ? time (320,150, win x, 250)) fillellipse (cis_x, 250, 30, 30); outstantry (cir-2,250, tname [j])



b. Two-level directory Structure

ALGORITHM:

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

PROGRAM: Hindudo cstdio.hs tt include (graphics. h) Struct true-element? Charmane [20] int x, y, ftype, fx, visc, ni, level; struct tomes clement & link[s]; 3; Sypedel struction time element node; void main () { inf gd=DETECT, gm node toword) vioot = NULL; drsons; vieale (2 vivot, 0, nell', 0, 630, 320), Urser () initgraph(tyd, lgn,"c:\\tc'
display(broot),
70

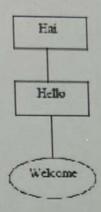
choregraph 1); } crease (node "voot, int de, char "drame, int la, int vix, int x) if (* root= NULL) & (*vroot) = (node *) mall or (size of (node)); Ser. prints ("enter name of file (under /.s)", dram); The same Mush (stdin); oilles abidun H glts (1 (voot) > name); if dev==olldev==1) (vroot) > ftype = 1; (-browt) -) type = 2; (*vroot) > debel = lev; (*voot) -> y = 50+lev * 50; (*voot) -> x = x (Purost) > bx = bc) (forest) >ux =ux; for (i=0;i25; i++) (Forost) ->link [i] = NOLL; i) ((* 000t) > ftype == 1) { if [lev==011lev==]} if ll wort)-Menel == 0) puin (('How many users");

print ("How many files"); frink ("(for 1.5)!", (* vroot) > name); Scan (1.d') ((root) ->nc); else (voot) ->n(=0; i) (c*voot) >nc ==0) gap = orx - doi; gap = (vx-dx)/(*voot)>nc; for (i= 0; ic/troot) >nc; itt) create (+ (Ctoroot) - slink [i]), dev+1, ctorout) name, læ +gah*i, læ +gah*i, læ+gah*i+, gap (2); else [*vvot) >nc=0; display (no de troot) setteset (2,0,4); set teset style (41); set fullstyle (1, BLUE) Set color (14)

if | woot! = NULL) { forli=o;icoroot->nc;i++){ line (voot -)x, voot >y, voot >link[i] >>1 root > link[i3>y]j] i floroot -) flyho == 1) bourd (root -)x-20, root -> y-10, root -> y+10,0,0); fillellipse (voot ->x, voot ->y, 20, 20) outtecting (voot - sx, voot - sy, voot - sname), for | i= 0; i Loroot-Inc; i++) (display (voot + link (i3) 3 33

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



and the first and the first the first the

Using a the file organisation structure, the single level directory two level directory are inflemented