22. Design a C program to organize the file using two level directory structure.

**PROGRAM:**

**#include<string.h>**

**#include<stdlib.h>**

**#include<stdio.h>**

**struct**

**{**

**char dname[10],fname[10][10];**

**int fcnt;**

**}dir[10];**

**int main()**

**{**

**int i,ch,dcnt,k;**

**char f[30], d[30];**

**dcnt=0;**

**while(1)**

**{**

**printf("\n\n1. Create Directory\t2. Create File\t3. Delete File");**

**printf("\n4. Search File\t\t5. Display\t6. Exit\tEnter your choice -- ");**

**scanf("%d",&ch);**

**switch(ch)**

**{**

**case 1: printf("\nEnter name of directory -- ");**

**scanf("%s", dir[dcnt].dname);**

**dir[dcnt].fcnt=0;**

**dcnt++;**

**printf("Directory created");**

**break;**

**case 2: printf("\nEnter name of the directory -- ");**

**scanf("%s",d);**

**for(i=0;i<dcnt;i++)**

**if(strcmp(d,dir[i].dname)==0)**

**{**

**printf("Enter name of the file -- ");**

**scanf("%s",dir[i].fname[dir[i].fcnt]);**

**printf("File created");**

**break;**

**}**

**if(i==dcnt)**

**printf("Directory %s not found",d);**

**break;**

**case 3: printf("\nEnter name of the directory -- ");**

**scanf("%s",d);**

**for(i=0;i<dcnt;i++)**

**{**

**if(strcmp(d,dir[i].dname)==0)**

**{**

**printf("Enter name of the file -- ");**

**scanf("%s",f);**

**for(k=0;k<dir[i].fcnt;k++)**

**{**

**if(strcmp(f, dir[i].fname[k])==0)**

**{**

**printf("File %s is deleted ",f);**

**dir[i].fcnt--;**

**strcpy(dir[i].fname[k],dir[i].fname[dir[i].fcnt]);**

**goto jmp;**

**}**

**}**

**printf("File %s not found",f);**

**goto jmp;**

**}**

**}**

**printf("Directory %s not found",d);**

**jmp : break;**

**case 4: printf("\nEnter name of the directory -- ");**

**scanf("%s",d);**

**for(i=0;i<dcnt;i++)**

**{**

**if(strcmp(d,dir[i].dname)==0)**

**{**

**printf("Enter the name of the file -- ");**

**scanf("%s",f);**

**for(k=0;k<dir[i].fcnt;k++)**

**{**

**if(strcmp(f, dir[i].fname[k])==0)**

**{**

**printf("File %s is found ",f);**

**goto jmp1;**

**}**

**}**

**printf("File %s not found",f);**

**goto jmp1;**

**}**

**}**

**printf("Directory %s not found",d);**

**jmp1: break;**

**case 5: if(dcnt==0)**

**printf("\nNo Directory's ");**

**else**

**{**

**printf("\nDirectory\tFiles");**

**for(i=0;i<dcnt;i++)**

**{**

**printf("\n%s\t\t",dir[i].dname);**

**for(k=0;k<dir[i].fcnt;k++)**

**printf("\t%s",dir[i].fname[k]);**

**}**

**}**

**break;**

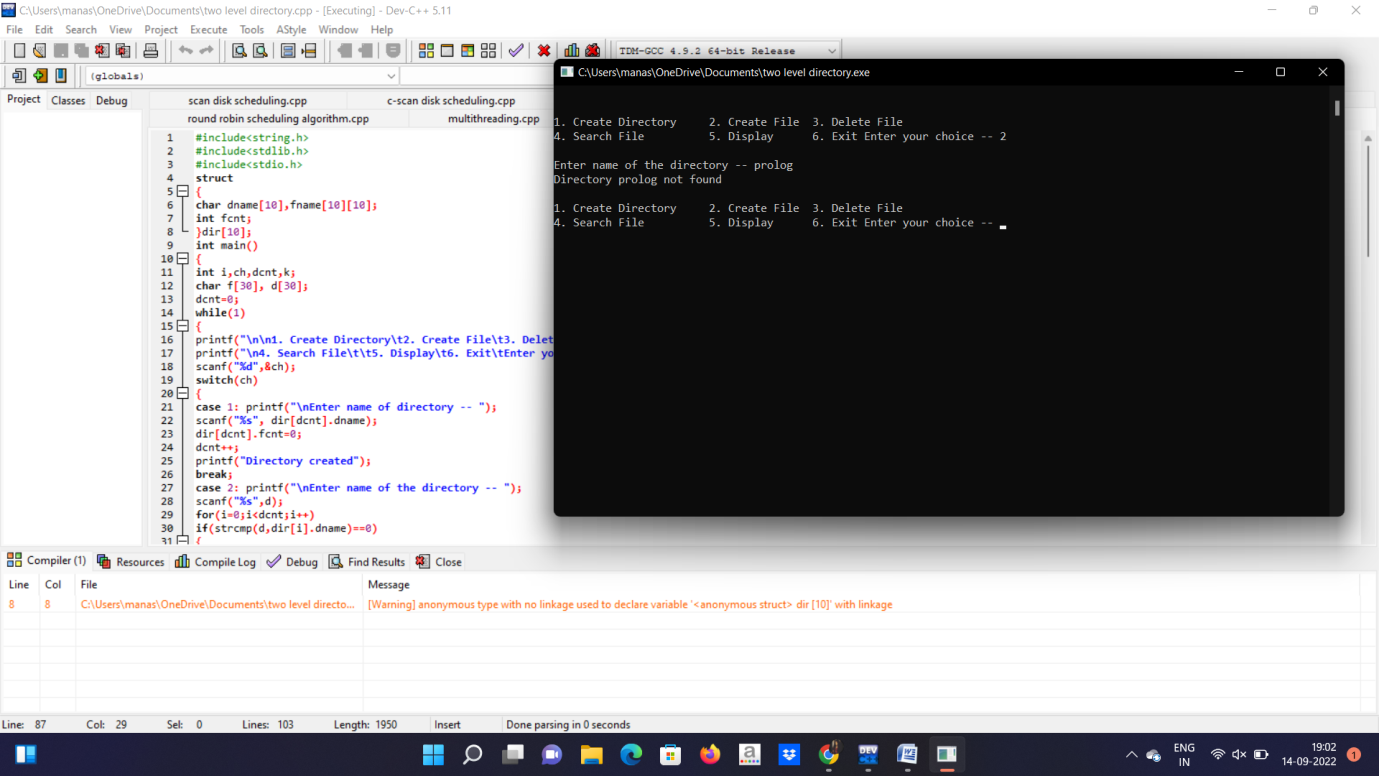
**default:exit(0);**

**}**

**}**

**}**

**OUTPUT:**

****