
EX NO: 11B	IMPLEMENTATION OF TWO-LEVEL DIRECTORY
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AIM:

To write a C program to implement Two-level directory structure in C.

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.
5. Stop.

PROGRAM:

```
#include<stdio.h>
struct st
{
char dname[10];
char sdname[10][10];
char fname[10][10][10];
int ds,sds[10];
}dir[10];
void main()
{
int i,j,k,n;
clrscr();
printf("enter number of directories:");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("enter directory %d names:",i+1);
scanf("%s",&dir[i].dname);
printf("enter size of directories:");
scanf("%d",&dir[i].ds);
for(j=0;j<dir[i].ds;j++)
{
printf("enter subdirectory name and size:");
scanf("%s",&dir[i].sdname[j]);
scanf("%d",&dir[i].sds[j]);
for(k=0;k<dir[i].sds[j];k++)
{
printf("enter file name:");
scanf("%s",&dir[i].fname[j][k]);
} }
printf("\ndirname\t\tsize\tsubdirname\tsize\tfiles");
printf("\n*****\n");
for(i=0;i<n;i++){
printf("%s\t\t%d",dir[i].dname,dir[i].ds);
for(j=0;j<dir[i].ds;j++)
{
printf("\t%s\t\t%d\t",dir[i].sdname[j],dir[i].sds[j]);
for(k=0;k<dir[i].sds[j];k++)
printf("%s\t",dir[i].fname[j][k]);
printf("\n\t\t");
printf("\n");
}
}
```

OUTPUT:

```
mohamedinam@Mohamed-Inam-PC: ~  
mohamedinam@Mohamed-Inam-PC:~$ ./twolvldir  
enter number of directories:2  
enter directory 1 names:cse  
enter size of directories:3  
enter subdirectory name and size:os 3  
enter file name:aaa  
enter file name:bbb  
enter file name:ccc  
enter subdirectory name and size:cn 2  
enter file name:xyz  
enter file name:mih  
enter subdirectory name and size:pqt 2  
enter file name:anh  
enter file name:kkk  
enter directory 2 names:ece  
enter size of directories:2  
enter subdirectory name and size:ct 2  
enter file name:aav  
enter file name:vcs  
enter subdirectory name and size:dc 4  
enter file name:afs  
enter file name:ged  
enter file name:eee  
enter file name:ttt  
  
dirname      size  subdirname  size  files  
*****  
cse           3      os           3      aaa      bbb      ccc  
              cn           2      xyz      mih  
              pqt          2      anh      kkk  
              ece          2      ct         2      aav      vcs  
              dc           4      afs      ged      eee      ttt  
mohamedinam@Mohamed-Inam-PC:~$
```

RESULT:

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Thus a C program to implement Two-level directory structure is written and executed successfully.
