Exp: 12b) Aim: Two-Level Directory

Program Code:

```
include <stdio.h>
include <string.h>
 truct File {
      char name[100];
 truct User {
      char name[100];
struct File files[10];
};
 int main() {
    struct User users[10];
        int usercount = 0;
       int choice;
char uname[100], fname[100];
      while (1) {
   printf("\n1. Create User\n2. Create File\n3. Display Directory\n4. Exit\n");
   printf("Enter your choice: ");
   scanf("%d", &choice);
               switch (choice) {
                               printf("Enter user name: ");
scanf("%s", users[usercount].name);
users[usercount].filecount = 0;
                                usercount++;
printf("User created.\n");
                               printf("Enter user name: ");
scanf("%s", uname);
for (int i = 0; i < usercount; i++) {
    if (strcmp(uname, users[i].name) == 0) {</pre>
                                              (strcmp(uname,
printf("Enter file name: ");
scanf("%s", fname);
strcpy(users[i].files[users[i].filecount++].name, fname);
printf("File created.\n");
                                printf("User not found.\n");
                                for (int i = 0; i < usercount; i++) {
    printf("\nUser: %s\nFiles:\n", users[i].name);
    for (int j = 0; j < users[i].filecount; j++) {
        printf(" %s\n", users[i].files[j].name);</pre>
```

```
}
break;
case 4:
return 0;
}
skip2:;
}
```

Output:

```
1. Create User
2. Create File
3. Display Directory
4. Exit
Enter your choice: 1
Enter user name: alic
User created.

    Create User
    Create File
    Display Directory

4. Exit
Enter your choice: 1
Enter user name: bob
User created.
1. Create User
2. Create File
3. Display Directory
4. Exit
Enter your choice: 2
Enter user name: alic
Enter file name: project1.txt
File created.

    Create User
    Create File

 3. Display Directory
4. Exit
Enter your choice: 2
Enter user name: bob
Enter file name: notes.txt
File created.
1. Create User
2. Create File
3. Display Directory
4. Exit
Enter your choice: 3
User: alic
Files:
 iles:
   project1.txt
User: bob
Files:
   notes.txt
```