EXP NO: 12

FILE ORGANIZATION TECHNIQUE SINGLE AND TWO LEVEL DIRECTORY

PROGRAM

```
#include <stdio.h>
#include <string.h>

struct {
    char dname[10], fname[10][10];
    int fcnt;
} dir;

int main() {
    int i;
    dir.fcnt = 0;

    printf("Enter the name of directory: ");
    scanf("%s", dir.dname);

    printf("Enter the number of files: ");
    scanf("%d", &dir.fcnt);

    for (i = 0; i < dir.fcnt; i++) {
        printf("Enter file name %d: ", i + 1);
        scanf("%s", dir.fname[i]);
}

    printf("\nDirectory Name: %s\n", dir.dname);
    printf("Files:\n");
    for (i = 0; i < dir.fcnt; i++) {
        printf("Files:\n");
        for (i = 0; i < dir.fcnt; i++) {
            printf(" %s\n", dir.fname[i]);
}

    return 0;</pre>
```

OUTPUT

```
[cse81@localhost ~]$ ./a.out
Enter the name of directory: Projects
Enter the number of files: 2
Enter file name 1: fileA.txt
Enter file name 2: fileB.c

Directory Name: Projects
Files:
   fileA.txt
   fileB.c
```

PROGRAM

```
#include <string.h>
struct {
    char dname[10], fname[10][10];
    int fent;
    dir[10];

int main() {
    int i, j, dc;

    printf("Enter the name of dir/file(under null): ");
    char root[10];
    scanf("%s", root);

    printf("How many users(for %s): ", root);
    scanf("%d", &dc);

for (i = 0; i < dc; i++) {
        printf("Enter name of dir/file(under %s): ", root);
        scanf("%s", dir[i].dname);

        printf("How many files(for %s): ", dir[i].dname);
        scanf("%d", &dir[i].fent);

        for (j = 0; j < dir[i].fent; j++) {
            printf("Enter name of dir/file(under %s): ", dir[i].dname);
            scanf("%s", dir[i].fname[j]);
        }

        // Output
        printf("NnTwo-Level Directory Structure:\n");
        for (i = 0; i < dc; i++) {
            printf("Ser Directory; %s\n", dir[i].dname);
            printf(" Files:\n");
            for (j = 0; j < dir[i].fcnt; j++) {
                  printf(" %s\n", dir[i].fname[j]);
            }
        return 0;
}
</pre>
```

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

Two-Level Directory Structure:
User Directory: Hello
Files:
welcome
```