CODE -

```
#include <stdio.h>
#include <string.h>
struct File {
 char name[20];
int main() {
   int n, ĭ;
    struct File files[20];
    scanf("%d", &n);
    for(i = 0; i < n; i++) {
    printf("Enter the file[%d]: ", i + 1);</pre>
         scanf("%s", files[i].name);
         // Display root directory structure
printf("\nRoot Directory\n");
         for(int j = 0; j \le i; j++) {
           printf(" |\n");
printf(" --> %s\n", files[j].name);
         printf("\n");
     for(i = 0; i < n; i++) {
         printf("%s\n", files[i].name);
```

OUTPUT -

```
Enter the Number of files: 2
Enter the file[1]: J

Root Directory

|
--> J

Enter the file[2]: B

Root Directory

|
--> J

|
--> B

All files in the Single Level Directory:
J
B
```

CODE -

```
#include <stdio.h>
#include <string.h>
struct File {
     char name[30];
struct Directory {
    char name[30];
      int file_count;
      struct File files[10];
int main() {
      char main_dir[30];
      int user_count;
      scanf("%s", main_dir);
      printf("How many users(for %s): ", main_dir);
scanf("%d", &user_count);
       struct Directory users[10];
       for (int i = 0; i < user_count; i++) {
    printf("Enter name of dir/file(under %s): ", main_dir);</pre>
             scanf("%s", users[i].name);
             printf("How many files(for %s): ", users[i].name);
scanf("%d", &users[i].file_count);
             for (int j = 0; j < users[i].file_count; j++) {
    printf("Enter name of dir/file(under %s): ", users[i].name);</pre>
                    scanf("%s", users[i].files[j].name);
      // Display the directory structure
printf("\nDirectory structure under '%s':\n", main_dir);
for (int i = 0; i < user_count; i++) {
    printf("\nUser Directory: %s\n", users[i].name);
    for (int j = 0; j < users[i].file_count; j++) {
        printf(" File: %s\n", users[i].files[j].name);
}</pre>
      return 0;
```

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

Directory structure under 'Hai':

User Directory: Hello
File: welcome
```