Ex. No. 12

File Organization Technique- Single and Two level directory

AIM:

To implement File Organization Structures in C are

a. Single Level Directory

b. Two-Level Directory

c. Hierarchical Directory Structure

d. Directed Acyclic Graph Structure

a. Single Level

Directory

ALGORITHM

1. Start
2. Declare the number, names and size of the directories and file names.
3. Get the values for the declared variables.
4. Display the files that are available in the directories.
5. Stop.

PROGRAM:

```
[cse46@localhost ~]$ vi single_level_directory.c
[cse46@localhost ~]$ cat single_level_directory.c
#include <stdio.h>

#define MAX_FILES 10

void singleLevelDirectory() {
    int n;
    char fileNames[MAX_FILES][50];

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

    printf("\nEnter the file names:\n");
    for (int i = 0; i < n; i++) {
        printf("File %d: ", i + 1);
        scanf("%s", fileNames[i]);
    }

    printf("\nFiles in the Directory:\n");
    for (int i = 0; i < n; i++) {
        printf("%s\n", fileNames[i]);
    }
}

int main() {
    singleLevelDirectory();
    return 0;
}
```

Output:

```
[cse46@localhost ~]$ gcc single_level_directory.c -o single_level_directory
[cse46@localhost ~]$ ./single_level_directory
Enter the number of files: 4

Enter the file names:
File 1: 3
File 2: 4
File 3: 5
File 4: 2

Files in the Directory:
3
4
5
2
```