Exp: 12) Aim: Single Level Directory

Program Code:

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

struct Directory {
    char filename[100][100];
    int filecount;
};

int main() {
    struct Directory dir;
    dir.filecount = 0;

    int choice;
    char name[100];

    while (1) {
        printf("\n1. Create File\n2. Delete File\n3. Display Files\n4. Exit\n");
        printf("Enter choice: ");
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                printf("Enter file name: ");
                scanf("%s", name);
                for (int i = 0; i < dir.filecount; i++) {
                    if (strcmp(name, dir.filename[i]) == 0) {
                        printf("File already exists!\n");
                        goto skip;
                    }
                }
                strcpy(dir.filename[dir.filecount++], name);
                printf("File created.\n");
                break;
            case 2:
                printf("Enter file name to delete: ");
                scanf("%s", name);
                for (int i = 0; i < dir.filecount; i++) {
                    if (strcmp(name, dir.filename[i]) == 0) {
                        strcpy(dir.filename[i], dir.filename[--dir.filecount]);
                        printf("File deleted.\n");
                        goto skip;
                    }
                }
                printf("File not found!\n");
                break;
            case 3:
                printf("Files:\n");
                for (int i = 0; i < dir.filecount; i++)
                    printf("%s\n", dir.filename[i]);
                break;
            case 4:
                return 0;
        }
        skip: ;
    }
}
```

Output:

```
1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 1
Enter file name: hello.c
File created.

1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 1
Enter file name: world.c
File created.

1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 3
Files:
hello.c
world.c

1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 2
Enter file name to delete: hello.c
File deleted.

1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 3
Files:
world.c

1. Create File
2. Delete File
3. Display Files
4. Exit
Enter choice: 4
```