Construct a C program to organize the file using single level directory.

#include <stdio.h>

#include <string.h>

#define MAX 100

char directory[MAX][100];

int fileCount = 0;

int findFile(char name[]) {

for (int i = 0; i < fileCount; i++) {

if (strcmp(directory[i], name) == 0)

return i;

}

return -1;

}

void createFile() {

char name[100];

printf("Enter file name to create: ");

scanf("%s", name);

if (findFile(name) != -1) {

printf("File already exists.\n");

} else {

strcpy(directory[fileCount++], name);

printf("File created.\n");

}

}

void deleteFile() {

char name[100];

printf("Enter file name to delete: ");

scanf("%s", name);

int index = findFile(name);

if (index == -1) {

printf("File not found.\n");

} else {

for (int i = index; i < fileCount - 1; i++) {

strcpy(directory[i], directory[i + 1]);

}

fileCount--;

printf("File deleted.\n");

}

}

void searchFile() {

char name[100];

printf("Enter file name to search: ");

scanf("%s", name);

if (findFile(name) != -1) {

printf("File found in directory.\n");

} else {

printf("File not found.\n");

}

}

void displayFiles() {

if (fileCount == 0) {

printf("Directory is empty.\n");

} else {

printf("Files in directory:\n");

for (int i = 0; i < fileCount; i++) {

printf("%s\n", directory[i]);

}

}

}

int main() {

int choice;

do {

printf("\n---- Single Level Directory ----\n");

printf("1. Create File\n2. Delete File\n3. Search File\n4. Display Files\n5. Exit\n");

printf("Enter your choice: ");

scanf("%d", &choice);

switch (choice) {

case 1: createFile(); break;

case 2: deleteFile(); break;

case 3: searchFile(); break;

case 4: displayFiles(); break;

case 5: printf("Exiting...\n"); break;

default: printf("Invalid choice!\n");

}

} while (choice != 5);

return 0;

}