#include <stdio.h>

#include <string.h>

#include <stdlib.h>

#include <conio.h>

#include <Windows.h>

struct{

char name[25];

char phone[25];

char address[50];

char email[25];

}c;

// Concepts used in this project

// simple input output

// while loop

// if else

// switch case

// string function

// Recursive function

// Struct

// File handling concepts

// System commands

FILE \*fp;

FILE \*fp1;

int add\_contact();

int view\_contact();

int delete\_contact();

int search\_contact();

int edit\_contact();

int main()

{

system("cls");

int choice;

printf("\n\t \* Welcome to Contact Management System \*\n\n");

while(1){

printf("\n\n\n\t\t\tMAIN MENU\n\t\t=====================\n\t\t[1] Add a new Contact\n\t\t[2] List all Contacts\n\t\t[3] Search for contact\n\t\t[4] Edit a Contact\n\t\t[5] Delete a Contact\n\t\t[6] Exit\n\t\t=================\n\t\t");

printf("\n\t\tEnter the choice: ");

scanf("%d",&choice);

switch(choice)

{

case 1:

add\_contact();

break;

case 2:

view\_contact();

break;

case 3:

search\_contact();

break;

case 4:

edit\_contact();

break;

case 5:

delete\_contact();

break;

case 6:

exit(0);

break;

default:

printf("wrong choice !!!!!!!");

}

}

}

int add\_contact()

{

system("cls");

char r[10];

char number[10];

gets(r);

fp=fopen("contact.txt","a+");

{

printf("\n\n\n\t\t\t\tName : ");

scanf("%s",c.name);

printf("\n\t\t\t\tPhone Number : ");

scanf("%s",&c.phone);

printf("\n\t\t\t\tAddress : ");

scanf("%s",c.address);

printf("\n\t\t\t\tEmail : ");

scanf("%s",c.email);

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

printf("\n\n\t\t\t\tRecord insert successful");

}

fclose(fp);

}

int view\_contact()

{

system("cls");

fp=fopen("contact.txt","r");

if(fp == NULL)

{

printf("file does not found !");

exit(1);

}

else

fp=fopen("contact.txt","r");

{

printf("\n\n\n\t\tName Phone number Address Email\n");

printf("========================================================================================");

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

printf("\n\nNAME: %s",c.name);

printf("\nPHONE NUMBER : %s",c.phone);

printf("\nADDRESS : %s",c.address);

printf("\nEMAIL : %s",c.email);

}

printf("\n\n=========================================================================================");

}

fclose(fp);

}

int delete\_contact()

{

system("cls");

fp = fopen("contact.txt","r");

fp1 = fopen("temp.txt","a");

char number[100];

char date[20];

int f=0;

printf("\n\n\n\t\t\t\tEnter the name you want to Delete : ");

scanf("%s",&number);

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

f =1;

printf("\n\n\n\t\t\t\tDelete successfull\n\n");

}

else

{

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

}

if(f==0)

{

printf("\n\n\t\t\tname not found");

}

fclose(fp);

fclose(fp1);

fp = fopen("contact.txt","w");

fclose(fp);

fp = fopen("contact.txt","a");

fp1 = fopen("temp.txt","r");

while(fscanf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

fclose(fp);

fclose(fp1);

fp = fopen("temp.txt","w");

fclose(fp);

}

int search\_contact()

{

system("cls");

char number[30];

fp = fopen("contact.txt","r");

printf("\n\n\n\t\t\t\tenter your name : ");

scanf("%s",&number);

if(fp == NULL)

{

printf("file does not found !");

exit(1);

}

else{

fp=fopen("contact.txt","r");

{

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

printf("\n\n\n\t\tName Phone number Address Email\n");

printf("========================================================================================");

printf("\n\nNAME: %s",c.name);

printf("\nPHONE NUMBER : %s",c.phone);

printf("\nADDRESS : %s",c.address);

printf("\nEMAIL : %s",c.email);

printf("\n\n=========================================================================================");

}

else {

printf("\n\n\t\t\tNo such contact Exists\n\n\n");

}

}

}

}

fclose(fp);

}

int edit\_contact()

{

system("cls");

int choice;

char number[50];

char present[15];

int f=0;

fp = fopen("contact.txt","r");

fp1 = fopen("temp.txt","a");

printf("\n\n\t\t\twhat would you like to edit?");

printf("\n\n\t\t[1] Name Edit ");

printf("\n\t\t\t[2] Phone Number Edit ");

printf("\n\t\t\t[3] Address edit");

printf("\n\t\t\t[4] Email edit");

printf("\n\t\t\t[5] Back To The Main Menu");

printf("'\n\n\t\t\t Enter your choice : ");

scanf("%d",&choice);

if(choice == 1)

{

printf("\n\n\n\t\t\t\t Enter your Name : ");

scanf("%s",number);

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

f =1;

printf("\n\n\t\t\tEnter The New Name :");

scanf("%s",present);

fprintf(fp1,"%s %s %s %s\n",present,c.phone,c.address,c.email);

printf("\n\n\n\t\t\t\tSuccessfully Updated\n\n ");

}

else

{

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

}

if(f==0)

{

printf("\n\n\t\t\t=============Name not found==================\n\n");

}

fclose(fp);

fclose(fp1);

fp = fopen("contact.txt","w");

fclose(fp);

fp = fopen("contact.txt","a");

fp1 = fopen("temp.txt","r");

while(fscanf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

fclose(fp);

fclose(fp1);

fp = fopen("temp.txt","w");

fclose(fp);

}

if(choice == 2)

{

printf("\n\n\n\t\t\t\t Enter your Name : ");

scanf("%s",number);

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

f =1;

printf("\n\n\t\t\tEnter Your New Phone Number :");

scanf("%s",present);

fprintf(fp1,"%s %s %s %s\n",c.name,present,c.address,c.email);

printf("\n\n\n\t\t\t\tsuccessfully update\n\n ");

}

else

{

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

}

if(f==0)

{

printf("\n\n\t\t\tName not found");

}

fclose(fp);

fclose(fp1);

fp = fopen("contact.txt","w");

fclose(fp);

fp = fopen("contact.txt","a");

fp1 = fopen("temp.txt","r");

while(fscanf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

fclose(fp);

fclose(fp1);

fp = fopen("temp.txt","w");

fclose(fp);

}

if(choice == 3)

{

printf("\n\n\n\t\t\t\t Enter your Name : ");

scanf("%s",number);

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

f =1;

printf("\n\n\t\t\tEnter The New Address :");

scanf("%s",present);

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,present,c.email);

printf("\n\n\n\t\t\t\tsuccessfully update\n\n ");

}

else

{

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

}

if(f==0)

{

printf("\n\n\t\t\tName not found");

}

fclose(fp);

fclose(fp1);

fp = fopen("contact.txt","w");

fclose(fp);

fp = fopen("contact.txt","a");

fp1 = fopen("temp.txt","r");

while(fscanf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

fclose(fp);

fclose(fp1);

fp = fopen("temp.txt","w");

fclose(fp);

}

if(choice == 4)

{

printf("\n\n\n\t\t\t\t Enter your Name : ");

scanf("%s",number);

while(fscanf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

if(strcmp(c.name,number)==0)

{

f =1;

printf("\n\n\t\t\tEnter The New Email :");

scanf("%s",present);

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,present);

printf("\n\n\n\t\t\t\tsuccessfully update\n\n ");

}

else

{

fprintf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

}

if(f==0)

{

printf("\n\n\t\t\tName not found");

}

fclose(fp);

fclose(fp1);

fp = fopen("contact.txt","w");

fclose(fp);

fp = fopen("contact.txt","a");

fp1 = fopen("temp.txt","r");

while(fscanf(fp1,"%s %s %s %s\n",c.name,c.phone,c.address,c.email)!=EOF)

{

fprintf(fp,"%s %s %s %s\n",c.name,c.phone,c.address,c.email);

}

fclose(fp);

fclose(fp1);

fp = fopen("temp.txt","w");

fclose(fp);

}

if(choice==5)

{

main();

}

}