

MINI PROJECT

MADE BY:-DEVAL G. KUMAR

REG NO: RA2111050010003

SECTION-Q1

SUBJECT-PROGRAMMING FOR
PROBLEM SOLVING

SEMESTER- II

```
#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;
FILE *fp;
FILE *fp1;
int add_contact();
int view_contact();
int delete_contact();
int search_contact();
int edit_contact();
int main()
{
    system("cls");    /* *****Main menu
***** */
    int choice;
    printf("\n\t **** Welcome to Contact Management
System ****");
    while(1){
        printf("\n\n\n\t\t\tMAIN
MENU\n\t\t\t===== \n\t\t\t[1] Add a new
Contact\n\t\t\t[2] List all Contacts\n\t\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\t\tName : ");
        scanf("%s",c.name);
        printf("\n\t\t\t\t\tPhone Number : ");
        scanf("%s",&c.phone);
        printf("\n\t\t\t\t\tAddress : ");
        scanf("%s",c.address);
        printf("\n\t\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\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\t\t\t\t\tPhone
number\t\t\t\t\tAddress\t\t\t\t\tEmail\n");
        printf("=====
=====");
        while(fscanf(fp,"%s %s %s
%s\n",c.name,c.phone,c.address,c.email)!=EOF)
        {
            printf("\n\n\t\t%s",c.name);
            printf("\t\t\t\t%s",c.phone);
            printf("\t\t\t\t%s",c.address);
            printf("\t\t\t\t%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 your 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\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\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=====
=====
=====");

    }

}

}

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\t[1] Name Edit ");
printf("\n\t\t\t\t[2] Phone Number Edit ");
printf("\n\t\t\t\t[3] Address edit");
printf("\n\t\t\t\t[4] Email edit");
printf("\n\t\t\t\t[5] Back To The Main Menu");
printf("\n\n\t\t\t\tEnter your choice : ");
scanf("%d",&choice);
if(choice == 1)
{
    printf("\n\n\n\t\t\t\tEnter 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\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
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 == 2)
    {
        printf("\n\n\n\t\t\tEnter 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\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\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\t\t\t Enter 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\t\t successfully
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\t\t\t Name 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 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\t Enter The New Email
:");
            scanf("%s",present);

```

```
fprintf(fp1,"%s %s %s\n",c.name,c.phone,c.address,present);
printf("\n\n\n\t\t\t\t\tsuccessfully update\n\n ");
}
else
{
    fprintf(fp1,"%s %s %s\n",c.name,c.phone,c.address,c.email);
}

}
if(f==0)
{
    printf("\n\n\t\t\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\n",c.name,c.phone,c.address,c.email)!=EOF)
{
    fprintf(fp,"%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();  
}  
  
}
```

OUTPUT:

MAIN MENU

=====

[1] Add a new Contact

[2] List all Contacts

[3] Search for contact

[4] Edit a Contact

[5] Delete a Contact

[6] Exit

=====

Enter the choice: 1

**** Welcome to Contact Management System ****

MAIN MENU

Name	Phone number	Address	Email
------	--------------	---------	-------

=====

===

Mohan	9876543210	Chowk	mohan@gmail.com
-------	------------	-------	-----------------

=====

=====

PROJECT EXPLANATION:

C project. Contacts Manager is a simple mini project code in C. This is similar to contact manager in Mobile phones.

Main menu [1] Add a new Contact [2] List all Contacts [3] Search for contact [4] Edit a Contact [5] Delete a Contact [6] Exit.

In this project I have used file handling, how to write data, delete data and search data from file.

About Contact Management System in C: File handling, data structure, functions are the main things which make up this simple C mini project. The key features of contact management system are listed below:

Add new contacts: with information such as name, phone number, address, and email

List all contacts: lists all the contacts stored in file with their respective contact details

Search contacts: based on name and phone number Edit contacts: edit information given while adding the contacts – name, phone number, address, and email Delete

contacts: deletes contacts from file.