

```

#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<conio.h>
#include<windows.h>

struct phoneBook{
    char name[30];
    char address[50];
    char mail[100];
    char father_name[35];
    char gender[35];
    long int mobile_number;
};

void menu();
void start();
void back();
void got();
void addmember();
void listmember();
void deletemember();
void searchmember();
void modifymember();

int main(){
    system("color 5f");
    start();
    return 0;
};

void back(){
    start();
}

void start(){
    menu();
}

void menu(){
    system("cls");
    printf("\t\t\t\t\t*****Welcome To PhoneBook
Application*****\n\n\n\n");
    printf("\t\t\t\t\t1.Add Member    \t\t2.List of Member\n\n    \t\t\t\t\t3.Search
Member  \t4.Delete Member\n\n \t\t\t\t\t5.Modify Member \t6.Exit\n\n");

    switch(getch()){
        case '1':
            addmember();
            break;
        case '2':
            listmember();
            break;
        case '3':
            searchmember();

```

```

        break;
    case '4':
        deletemember();
        break;
    case '5':
        modifymember();
        break;
    case '6':
        exit(0);
        break;

    default:
        system("cls");
        printf(" Error! ");
        getch();

        menu();
    }
}

void addmember(){
    system("cls");
    FILE *f;
    struct phoneBook p;
    f = fopen("DS_project","ab+");
    printf("\t\t\nEnter name: ");
    got(p.name);
    printf("\t\t\nEnter Address: ");
    got(p.address);
    printf("\t\t\nEnter E-Mail: ");
    got(p.mail);
    printf("\t\t\nEnter your gender: ");
    got(p.gender);
    printf("\t\t\nEnter Father name: ");
    got(p.father_name);
    printf("\t\t\nEnter Mobile number: ");
    got(p.mobile_number);
    fwrite(&p,sizeof(p),1,f);
    fflush(stdin);
    printf("\n\n Record saved..");

    fclose(f);
    printf("\n\nEnter any key");

    getch();
    system("cls");
    menu();
}

void listmember(){
    struct phoneBook p;
    FILE *f;

```

```

f = fopen("DS_project","rb");
if (f == NULL){
    printf(" No members are there in the list \n Add member's to search! ");

    exit(1);
}
while(fread(&p,sizeof(p),1,f) == 1){
    printf("\n\n\n\t\t\t\tYour record is: \n\n ");
    printf("\t\t\t\t\tName = %s \t\t\t\t\tAdress = %s \t\t\t\t\tFather name =
%s \t\t\t\t\tMobile no = %ld \t\t\t\t\tGender = %s \t\t\t\t\tE-mail =
%s",p.name,p.address,p.father_name,p.mobile_number,p.gender,p.mail);

    getch();
    system("cls");
}

fclose(f);
printf("\n Press any key to return Main menu");
getch();
system("cls");
menu();

}

void searchmember(){
    struct phoneBook p;
    FILE *f;
    char name[100];
    f = fopen("DS_project","rb");
    printf("Enter the name of the person to search:\t");
    got(name,"\n");
    if(f == NULL){
        printf(" Add members to search! ");
    }
    while(fread(&p,sizeof(p),1,f) == 1){
        if(strcmp(p.name,name)==0){
            printf("\n\tDetail Information About %s is:\n",name);
            printf("\t\t\tName: %s\n \taddress: %s\n \tFather name: %s\n \tMobile
no: %ld\n \tGender: %s\n \t\tE-mail:
%s",p.name,p.address,p.father_name,p.mobile_number,p.gender,p.mail);
        }
        else{
            printf("file not found");
        }
    }
    fclose(f);
    printf("\n Press any key to return Main menu");
    getch();
    system("cls");
    menu();
}

```

```

void deletemember(){
    struct phoneBook p;
    FILE *f,*ft;
    int flag;
    char name[100];
    f = fopen("DS_project","rb");
    if(f == NULL){
        printf(" No member found! ");
    }
    else{
        ft=fopen("temp","wb+");
        if(ft==NULL){
            printf("file opaning error");
        }
        else{
            printf(" Enter name: ");
            got(name);

            fflush(stdin);
            while(fread(&p,sizeof(p),1,f) == 1){
                if(strcmp(p.name,name) != 0){
                    fwrite(&p,sizeof(p),1,ft);
                }
                else if(strcmp(p.name,name) == 0){
                    flag = 1;
                }
            }
            fclose(f);
            fclose(ft);
            if(flag != 1){
                printf(" No member is there to delete ");
                remove("temp.txt");
            }
            else{
                remove("DS_project");
                rename("temp.txt","DS_project");
                printf(" Member deleted successfully! ");
            }
        }
    }

    printf("\n Press any key to return Main menu ");
    getch();
    system("cls");
    menu();
}

```

```

void modifymember(){
    int c;
    FILE *f;

```

```

int flag=0;
struct phoneBook p,s;
char name[50];
f=fopen("DS_project","rb+");
if(f == NULL)
{
    printf("Member's data not added");
    exit(1);
}
else
{
    system("cls");
    printf("\n Enter member name to modify:\n");
    got(name);
    while(fread(&p,sizeof(p),1,f)==1)
    {
        if(strcmp(name,p.name)==0)
        {

            printf("\n\nEnter name:");
            got(s.name);
            printf("\nEnter the address:");
            got(s.address);
            printf("\nEnter father name:");
            got(s.father_name);
            printf("\nEnter phone no:");
            scanf("%ld",&s.mobile_number);
            printf("\nEnter Gender:");
            got(s.gender);
            printf("\nEnter e-mail:");
            got(s.mail);
            fseek(f,-sizeof(p),SEEK_CUR);
            fwrite(&s,sizeof(p),1,f);
            flag=1;
            break;
        }
        fflush(stdin);

    }
    if(flag == 1)
    {
        printf("\n your data id modified");
    }
    else
    {
        printf(" \n data is not found");
    }
}

```

```

        }
        fclose(f);
    }
    printf("\n Press any key to return Main menu");
    getch();
    system("cls");
    menu();
}

void got(char *name)
{
    int i = 0,j;
    char c,ch;
    do{
        c = getch();
        if(c != 8 && c != 13){
            *(name+i) = c;
            putchar(c);
            i++;
        }
        if(c == 8){
            if(i>0){
                i--;
            }
            system("cls");
            for(j = 0;j < i; j++){
                ch = *(name+j);
                putchar(ch);
            }
        }
    }
    while(c != 13);
    *(name+i) = '\0';
}

```