

ICT GANPAT UNIVERSITY

ESFP PROJECT

By :-

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Group :- G07

TOPIC :- *Contact Management System*

Source – code

```
/*Using this project, we can easily add, view, edit, search and delete contacts.  
We can list contacts by name, phone no., address, and email.  
File handling is used to record all data so that after termination of the program data persists.  
Here a data structure is used to store the name, email, and contact.  
Coding of the project is short and simple.*/
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```
#include<stdio.h>  
#include<conio.h>  
#include<string.h>  
#include<process.h>  
#include<stdlib.h>  
#include<dos.h>  
  
struct contact  
{  
    long ph;  
    char name[20],add[20],email[30];  
} list;  
  
char query[20],name[20];  
  
FILE *fp, *ft;  
  
int i,n,ch,l,found;
```

```

//Start of main//
int main()

{

main:

    system("cls");    /* *****Main menu ***** */
    system("color 3f");
    printf("\n\t **** Knowledge 360 ****");
    printf("\n\t **** Welcome to Contact Management System ****");
    printf("\n\n\n\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[0]
Exit\n\t\t===== \n\t\t");

    printf("Enter Your Choice: ");

    scanf("%d",&ch);

    switch(ch)

    {
//This case is used for Exit//
    case 0:

        printf("\n\n\t\tAre You Sure To Exit?");

        break;

        /* *****Add new contacts***** */
//This case is used for Add a new Contact//
    case 1:

        system("cls");

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

        for (;;)

        {

            fflush(stdin);

            printf("To Exit Enter Blank Space in the Name Input\nName (Use
identical): ");

            scanf("%[^\\n]",&list.name);

```

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        if(strcmp(list.name,"")==0 || strcmp(list.name," ")==0)

            break;

        fflush(stdin);

        printf("Phone: ");

        scanf("%ld",&list.ph);

        fflush(stdin);

        printf("Address: ");

        scanf("%[^\\n]",&list.add);

        fflush(stdin);

        printf("Email Address: ");

        gets(list.email);

        printf("\\n");

        fwrite(&list,sizeof(list),1,fp);

    }

    fclose(fp);

    break;

    /* *****list of contacts***** */
    //This case is used for List all Contact//
    case 2:

        system("cls");

        printf("\\n\\t\\t=====\\n\\t\\t\\tLIST OF
CONTACTS\\n\\t\\t=====\\n\\nName\\t\\tPhone
No\\t    Address\\t\\tE-
mail\\n=====\\n\\n");

        for(i=97; i<=122; i=i+1)

        {

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

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        fflush(stdin);

        found=0;

        while(fread(&list,sizeof(list),1,fp)==1)

        {

            if(list.name[0]==i || list.name[0]==i-32)

            {

                printf("\nName\t: %s\nPhone\t: %ld\nAddress\t:
%s\nEmail\t: %s\n",list.name,

                    list.ph,list.add,list.email);

                found++;

            }

        }

        if(found!=0)

        {

            printf("=====
===== [%c]-(%d)\n\n",i-32,found);

            getch();

        }

        fclose(fp);

    }

    break;

    /* *****search contacts***** */
    //This case is used search for Contact //
    case 3:

        system("cls");

        do

        {

```

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        found=0;

        printf("\n\n\t...:CONTACT
SEARCH\n\t=====\\n\t...:Name of contact to search: ");

        fflush(stdin);

        scanf("%[^\\n]", &query);

        l=strlen(query);

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

        system("cls");

        printf("\n\n\t...:Search result for '%s'
\\n=====\\n", query);

        while(fread(&list, sizeof(list), 1, fp)==1)
        {
            for(i=0; i<=l; i++)

                name[i]=list.name[i];

            name[l]='\\0';

            if(stricmp(name, query)==0)
            {

                printf("\n...:Name\\t: %s\\n...:Phone\\t: %ld\\n...:Address\\t:
%s\\n...:Email\\t: %s\\n", list.name, list.ph, list.add, list.email);

                found++;

                if (found%4==0)
                {

                    printf("...:Press any key to continue...");

                    getch();

                }
            }
        }
    }
}

```

```

    }

}

if(found==0)

    printf("\n...:No match found!");

else

    printf("\n...:%d match(s) found!",found);

fclose(fp);

printf("\n ...:Try again?\n\n\t[1] Yes\t\t[0] No\n\t");

scanf("%d",&ch);

}
while(ch==1);

break;

/* *****edit contacts***** */
//This case is used for Edit a Contact//
case 4:

    system("cls");

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

    ft=fopen("temp.dat","w");

    fflush(stdin);

    printf("...:Edit
contact\n=====
\n\n\t...:Enter the name of contact to
edit:");

    scanf("%[^\\n]",name);

    while(fread(&list,sizeof(list),1,fp)==1)

    {

        if(stricmp(name,list.name)!=0)

            fwrite(&list,sizeof(list),1,ft);

```

```

    }

    fflush(stdin);

    printf("\n\n...:Editing '%s'\n\n",name);

    printf("...:Name(Use identical):");

    scanf("%[^\\n]",&list.name);

    fflush(stdin);

    printf("...:Phone:");

    scanf("%ld",&list.ph);

    fflush(stdin);

    printf("...:address:");

    scanf("%[^\\n]",&list.add);

    fflush(stdin);

    printf("...:email address:");

    gets(list.email);

    printf("\n");

    fwrite(&list,sizeof(list),1,ft);

    fclose(fp);

    fclose(ft);

    remove("contact.dll");

    rename("temp.dat","contact.dll");

    break;

    /* *****delete contacts***** */
    //This case is used for Delete a Contact//
    case 5:

        system("cls");

```

```

        fflush(stdin);

        printf("\n\n\t...:DELETE A
CONTACT\n\t===== \n\t...:Enter the name of contact to
delete:");

        scanf("%[^\n]", &name);

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

        ft=fopen("temp.dat", "w");

        while(fread(&list, sizeof(list), 1, fp) != 0)

            if (strcmp(name, list.name) != 0)

                fwrite(&list, sizeof(list), 1, ft);

        fclose(fp);

        fclose(ft);

        remove("contact.dll");

        rename("temp.dat", "contact.dll");

        break;

default:

    printf("Invalid choice");

    break;

}

printf("\n\n\n...:Enter the Choice:\n\n\t[1] Main Menu\t\t[0] Exit\n");

scanf("%d", &ch);

switch (ch)

{

    case 1:

        goto main;

```



```
    case 0:

        break;

    default:

        printf("Invalid choice");

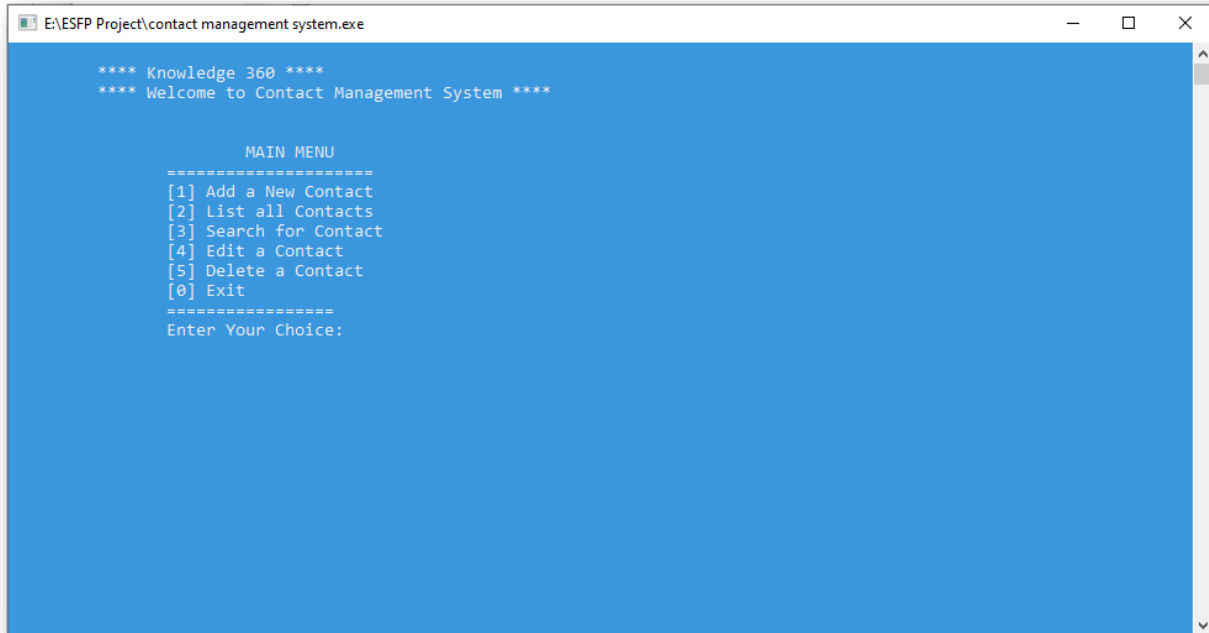
        break;

}

return 0;

}
```

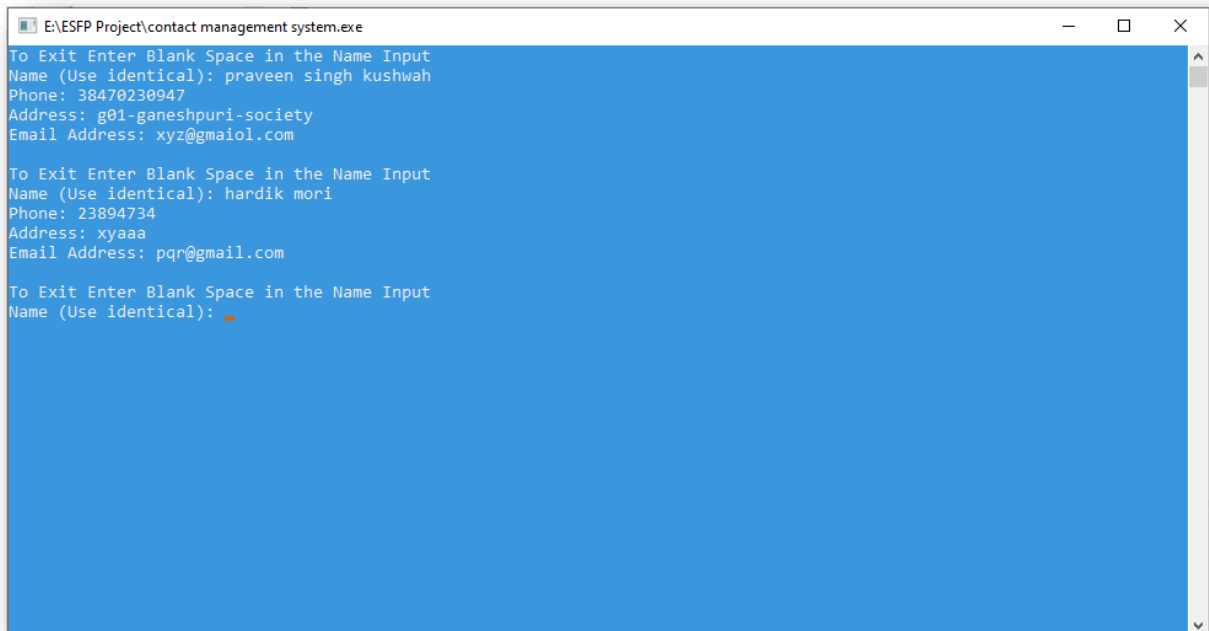
OUTPUT



```
E:\ESFP Project\contact management system.exe

**** Knowledge 360 ****
**** Welcome to Contact Management System ****

MAIN MENU
=====
[1] Add a New Contact
[2] List all Contacts
[3] Search for Contact
[4] Edit a Contact
[5] Delete a Contact
[0] Exit
=====
Enter Your Choice:
```



```
E:\ESFP Project\contact management system.exe

To Exit Enter Blank Space in the Name Input
Name (Use identical): praveen singh kushwah
Phone: 38470230947
Address: g01-ganeshpuri-society
Email Address: xyz@gmailol.com

To Exit Enter Blank Space in the Name Input
Name (Use identical): hardik mori
Phone: 23894734
Address: xyaaa
Email Address: pqr@gmail.com

To Exit Enter Blank Space in the Name Input
Name (Use identical):
```

```
E:\ESFP Project\contact management system.exe

**** Knowledge 360 ****
**** Welcome to Contact Management System ****

MAIN MENU
=====
[1] Add a New Contact
[2] List all Contacts
[3] Search for Contact
[4] Edit a Contact
[5] Delete a Contact
[0] Exit
=====
Enter Your Choice: 2
```

```
E:\ESFP Project\contact management system.exe

=====
LIST OF CONTACTS
=====

Name          Phone No      Address      E-mail
=====
Name   : hardik mori
Phone  : 23894734
Address : xyaaa
Email  : pqr@gmail.com
===== [H]-(1)

Name   : Praveen
Phone  : -599362613
Address : kjisidacdc
Email  : jdssdjbcjdb

Name   : praveen singh kushwag01-ganeshpuri-sociexyz@gmailol.com
Phone  : -184474717
Address : g01-ganeshpuri-sociexyz@gmailol.com
Email  : xyz@gmailol.com
===== [P]-(2)
```