PPS MINI PROJECT

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CSE-IT (O1)

Contact Management System :

```c
#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;

int main()

{

main:

    system("cls");    /* ************Main menu
********************  */

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

```c
    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[0] Exit\n\t\t=================\n\t\t");

    printf("Enter the choice:");

    scanf("%d",&ch);

    switch(ch)

    {

    case 0:

        printf("\n\n\t\tAre you sure you want to exit?");

        break;

        /* ********************Add new contacts************  */

    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);

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

                    break;

            fflush(stdin);

            printf("Phone:");

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

            fflush(stdin);

            printf("address:");

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

            fflush(stdin);
```

```c
            printf("email address:");

            gets(list.email);

            printf("\n");

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

        }

        fclose(fp);

        break;

        /* ********************list of
contacts**********************  */

    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
ad.\n=================================================================
==\n\n");

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

        {

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

            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++;

                }

            }
```

```c
            if(found!=0)

            {

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

                getch();
            }

            fclose(fp);

        }

        break;

        /* ******************search contacts******************** */

    case 3:

        system("cls");

        do

        {

            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..::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';
```

```c
                        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*********************/

    case 4:

        system("cls");

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

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

        fflush(stdin);
```

```c
        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;
```

```c
        /* ********************delete
contacts********************/

    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 (stricmp(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;
```
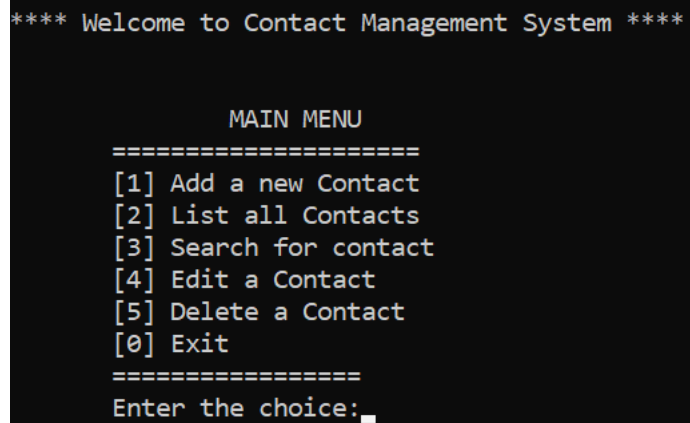
```c
        case 0:

            break;

        default:

            printf("Invalid choice");

            break;

    }

    return 0;

}
```

OUTPUT:

```
**** 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 the choice:_
```