

```
#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 a0 contact Manager ****");
printf("\n\n\n\t\t\tMAIN MENU\n\t\t\t===== \n\t\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 u want to exit?");  
break;
```

```
/* *****add new contacts***** */
case 1:
```

```
system("cls");
```

```
fp=fopen("contact.dll","a");  
for (;;)
    f_puts("\n\n",fp);
```

```
{ fflush(stdin);  
printf("To exit enter blank space in the name input\nName (Use  
identical):");
```

```
scanf("%[^\n]", &list.name);
if (strcmp(list.name, "") == 0 || strcmp(list.name, " ") == 0)
```

```
if(strcmp(i1st.name,  )==0 || strcmp(i1st.name,  )==0)
break;
fflush(stdin);
```

```
fflush(stdin);
printf("Phone:");
scanf("%ld" &list_ph):
```

```
scanf("%i", &list.ptr);
fflush(stdin);
printf("address:");
```

```
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*****
*/
```

```
case 2:  
system("cls");
```

```
printf("\n\t\t===== \n\t\t\tLIST OF  
CONTACTS\n\t\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++;
}
}
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<=1;i++)
name[i]=list.name[i];
name[1]='\\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***** */
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***** */

```

```

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\t[0]  
Exit\n");  
scanf("%d",&ch);  
switch (ch)  
{  
case 1:  
goto main;
```

```
case 0:  
break;
```

```
default:  
printf("Invalid choice");  
break;  
}
```

```
return 0;  
}
```