

Project Made 2 You

A Computer Science portal for geeks. It contains well written, well thought and well explained computer science and programming articles, projects and other technical stuff.

Make a library management system project using c++ programming | c++ project

In this post, you will learn about how to make a **c++ project** or make a simple **library management system** using just **c++ programming**.



Introduction to C++ [library management system] project.

This is a simple library management system which totally depends on the c++ programming language. and to fully understand this project you need to have at least some knowledge of c++ programming language. this is a small project which is very useful for the beginners who love to code in c++ programming and one can also use this project in their own c++ programming project. in this project, you will learn about some new about c++ programming. we use different types of **header files, classes, constructor, two and three-dimensional arrays, string functions, switch case, goto function, if-else statements** and **loops** to create this project. and I recommended you that first you understand this project with the help of points given below and then create this project on your own conditions and if you stuck on any point then feel free to seek into our code. **you can also download our project files from the given the download button at the bottom of the post** and also feel free to customize the code of the project and recreate this project on your own conditions and use your own creative stuff and also share with me on my social media pages.

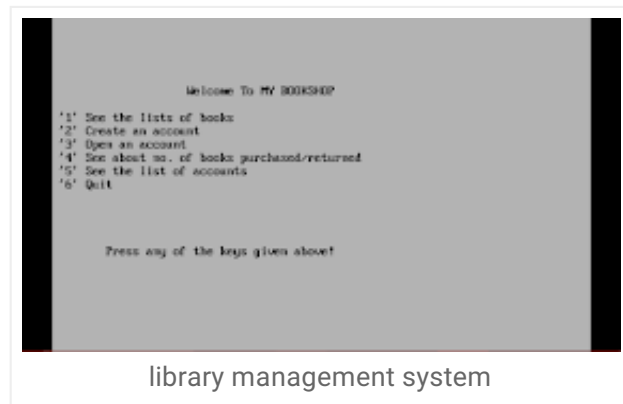
The logic of the Project:

This project is not possible to explain fully but I try my hard to explain this project to you so you can recreate this project on your own conditions and with your hand made code.

First, you need to print out "Welcome" and "Press any key to continue" at the middle of the page using gotoxy() function as shown in the image given below.

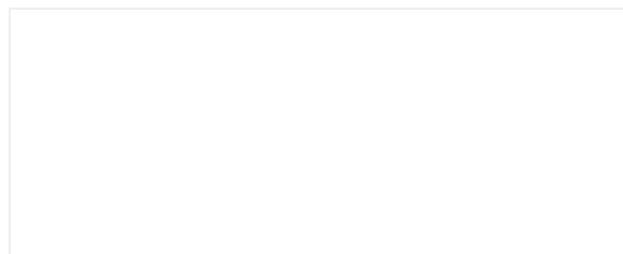


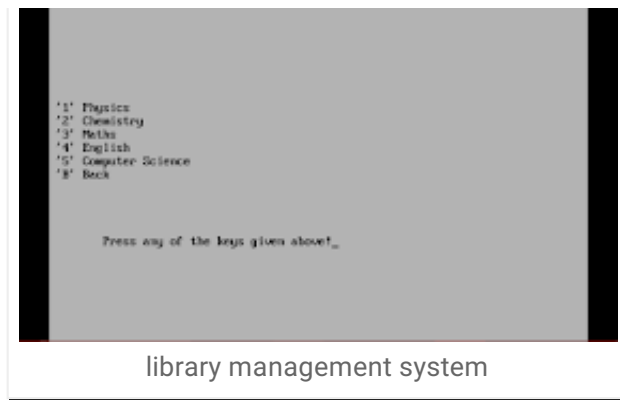
When you press any key of the keyboard then you need to go to the next window where you need to print out the "welcome to my bookshop" and also need to print out six options and print out "press any of the keys given above!" as shown in the image given below.



when you select [see the list of books] by pressing key 1:

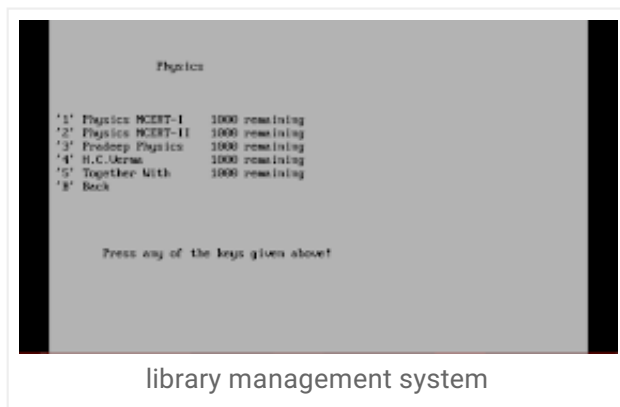
Then you need to print out the list of books or a back option and print out "press any of the keys given above!" at the bottom as shown in the image given below.



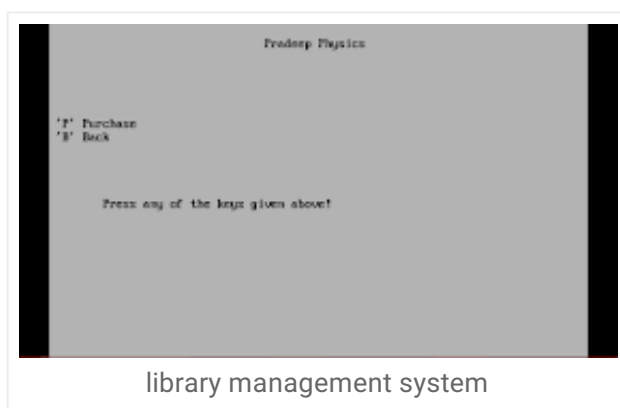


when you press any key between 1 to 5

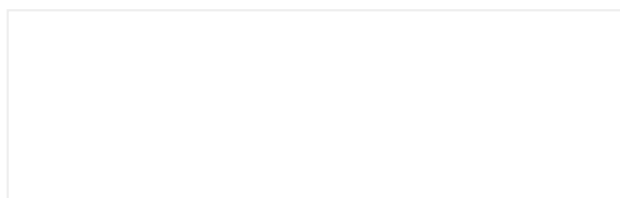
then you need to print out all the versions of the selected books and a back option and print out "press any of the keys given above!" at the bottom as shown in the image given below.

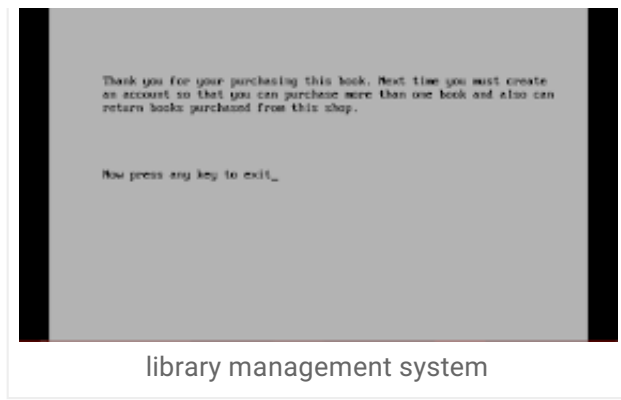


when you press any key between 1 to 5 then you need to print out options as shown in the image given below.



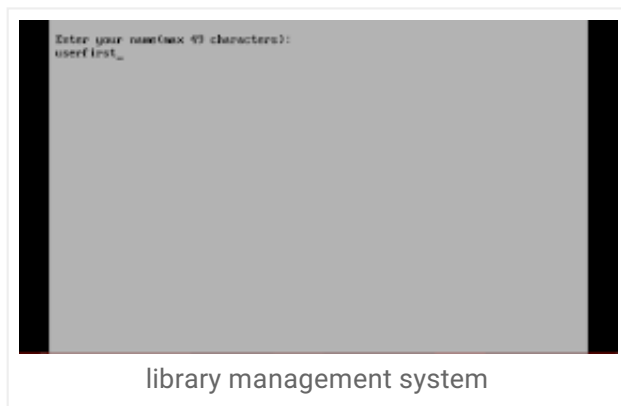
when you press p button then you need to print out a message as shown in the image given below. and when you press any key then you need to exit from the program.





when you select [create an account] by pressing key 2:

Then you need to print out the message as shown in the image and need to scan user name which he entered as shown in the image.

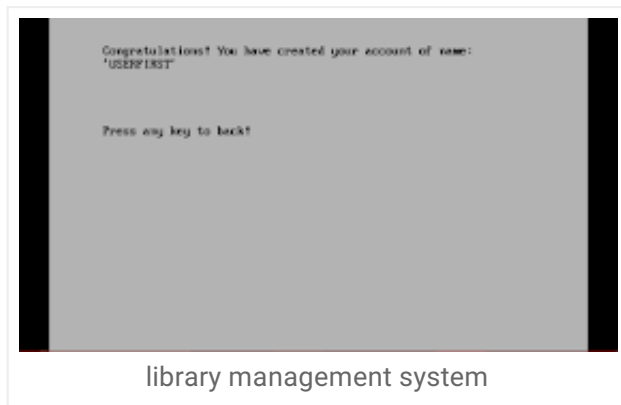
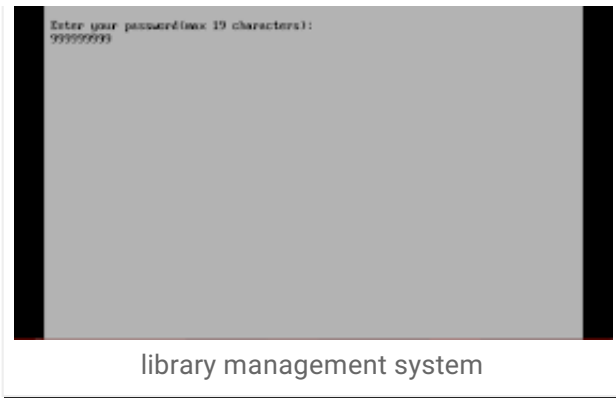


when the user press enter then you need to ask him for the set password for his account as shown in the image.



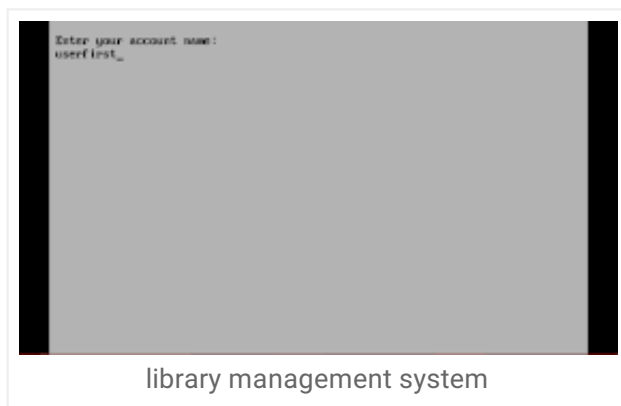
when user press Y then ask him for the password as shown in the image and when the user enters his password and press any key then you need to show him a message as shown in the next image and when user press any key then you need to go back to the options. if the user presses N then you need to go back to the options.



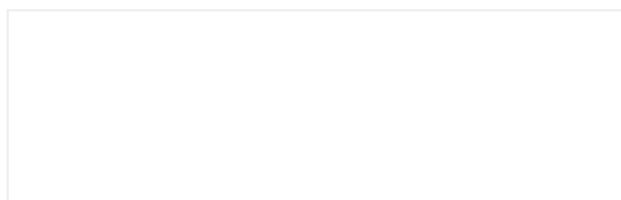


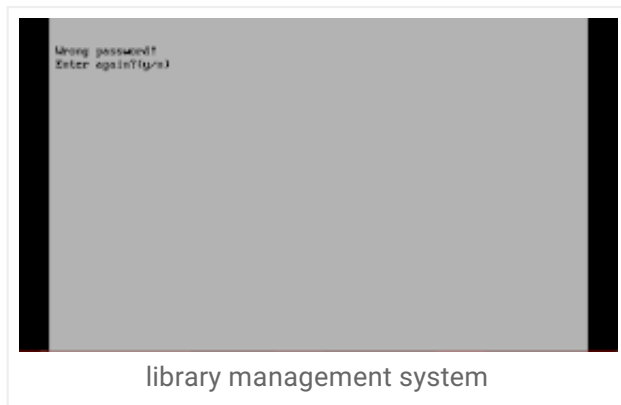
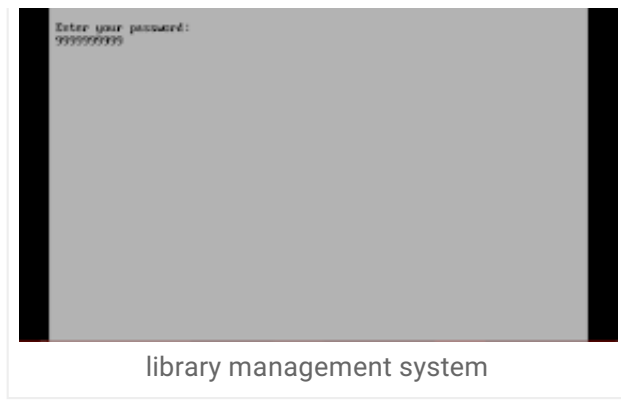
when user select [open an account] by pressing key 3:

Then you need to ask him for his username as shown in the image given below. and if the user name is incorrect then you need to go back to the options.

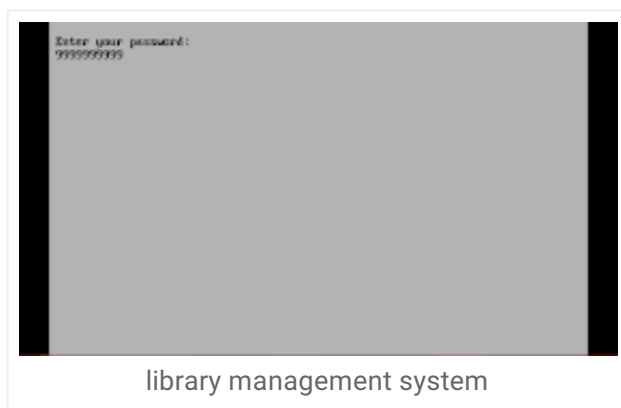


and when the user enters his username and hit enter then you need to ask him for his password. as shown in the image given below. if the password is wrong then you need to print a message as shown in the next image given below and ask him to enter the password again as shown in the next image given below.

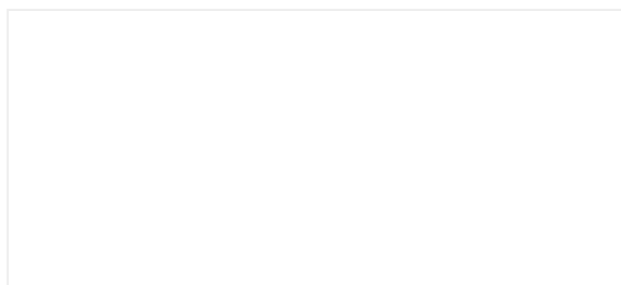


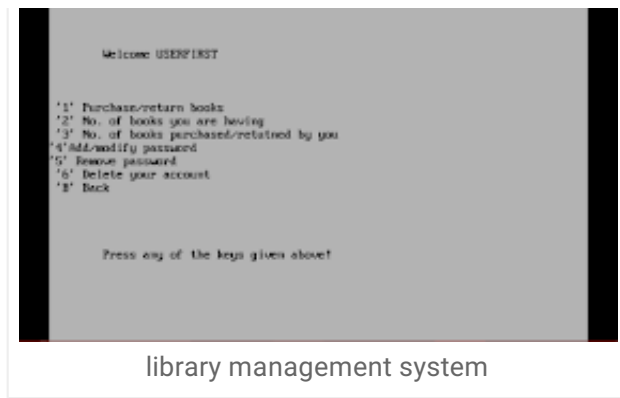


when user press Y then you again ask him for the password as shown in the image given below. and if he presses N then you need to go back to the options.



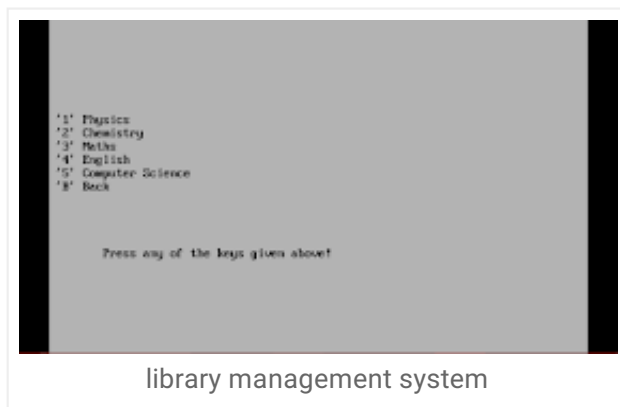
after successful login to the account, you need to print out his name at the top of the list and need to print out the six options with a back option as shown in the image. also, need to print out a message at the bottom of the page as shown in the image.



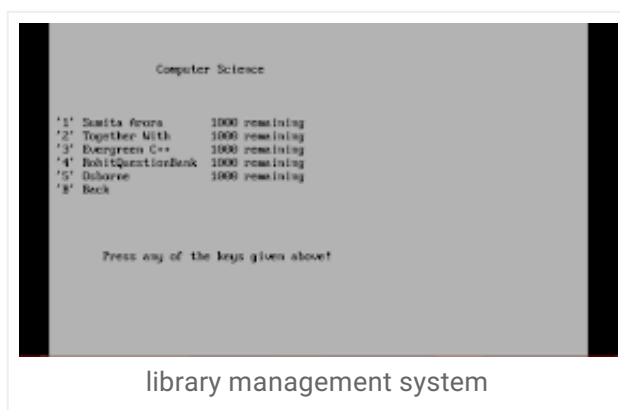


when user select [purchas/return book] after creating an account by pressing 1:

Then you need to print out the list of all books with a back option or a message at the bottom of the page as shown in the image.

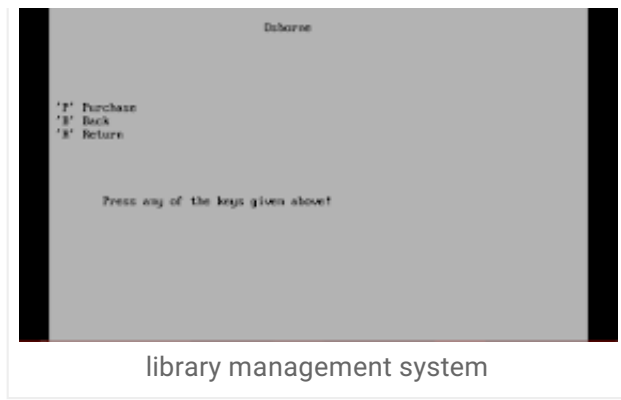


when the user selects any of the books from the given list then you need to print out all the versions of the same subjects which are available as shown in the image given below with a back option. for example, I choose 'computer science' book.

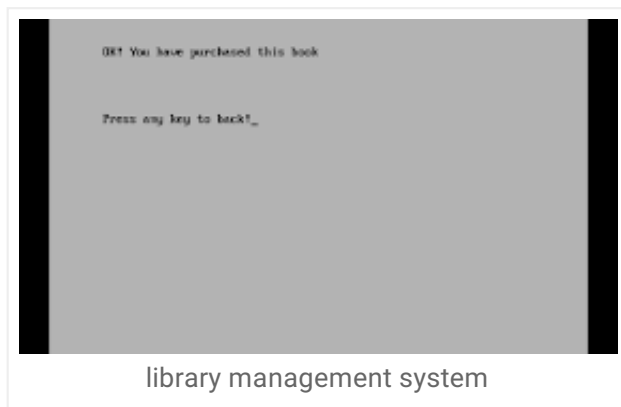


when a user selects any of the books then you need to print out three options as shown in the image given below.



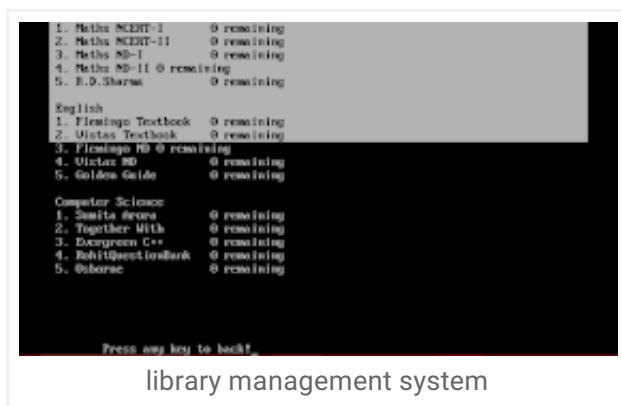


if user press option P then you need to print out a message as shown in the image given below.



when user select [no of books you are having] after creating an account by pressing 2:

Then you need to print out the no of books which are purchased by you as shown in the image.



when user select [no of books purchased/returned by you] after creating an account by pressing 3:

Then you need to print out the list of books and no of books which are purchased by you and return by you as shown in the image given below.

Subject	Purchased	Returned
1. Physics	0	0
2. Chemistry	0	0
3. Maths	0	0
4. English	0	0
5. Computer Science	0	0
6.Total	0	0

Press any key to back!

library management system

when user select [Add/modify password] after creating an account by pressing 4:

Then you need to ask the user for the new password as shown in the image. after entering a new password and hit enter then you need to go back to the options.

Enter new password(max 15 characters):
 ?????????

library management system

when user select [remove password] after creating an account by pressing 5:

Then you need to ask a user to remover password as shown in the image. if he presses Y then you need to print a message " you password successfully removed". if the user press N then you need to go back to the options.

Remove password(Y/n):_

library management system

when user select [remove account] after creating an account by pressing 6:

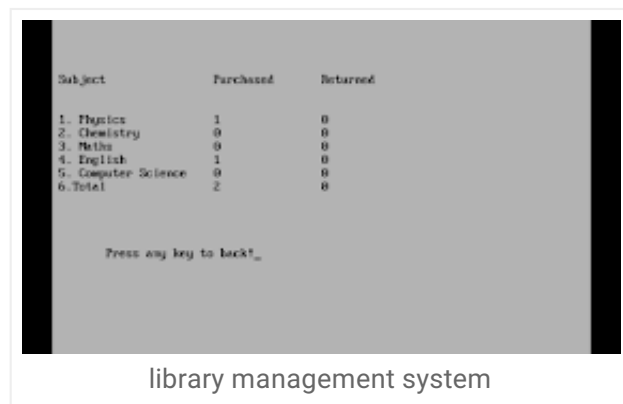
Then you need to print out a message as shown in the image given below. if the user press Y

then you need to print out a message "your account successfully removed". and if the user selects N then you need to go back to the options.



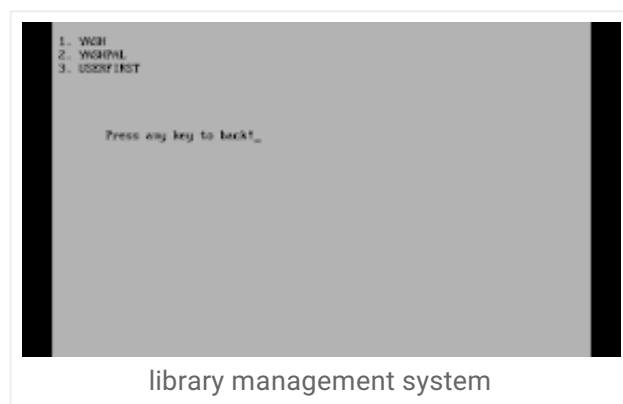
when user select [see no of books purchased/returned] without opening an account by pressing 4.

Then you need to print out the list of books and the no of books which are purchased by all the users and returned by all the users as shown in the image.



when user select [see the list of accounts] without opening an account by pressing 5.

Then you need to print out all the user's name who made their account as shown in the image.



when user select [quit] without opening an account by pressing 6.

Then you need to print out a message as shown in the image and when user press any key then you need to come out from the program.



Coding of the project:

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

SOURCE CODE

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

```
#include<fstream.h>
#include<conio.h>
#include<string.h>
#include<process.h>
#include<stdio.h>
#include<ctype.h>
```

```
class subject
```

```
{
public:
char s[5][40],sub[5][5][40];
subject()
{
strcpy(sub[0][0],"Physics NCERT-I");
strcpy(sub[0][1],"Physics NCERT-II");
strcpy(sub[0][2],"Pradeep Physics");
strcpy(sub[0][3],"H.C.Verma\t");
strcpy(sub[0][4],"Together With");
strcpy(sub[1][0],"Chemistry NCERT-I");
strcpy(sub[1][1],"Chemistry NCERT-II");
strcpy(sub[1][2],"Pradeep Chemistry");
strcpy(sub[1][3],"Together With");
strcpy(sub[1][4],"P.Bahaadur\t");
strcpy(sub[2][0],"Maths NCERT-I");
strcpy(sub[2][1],"Maths NCERT-II");
strcpy(sub[2][2],"Maths ND-I\t");
strcpy(sub[2][3],"Maths ND-II");
```

```

strcpy(sub[2][4],"R.D.Sharma\t");
strcpy(sub[3][0],"Flemingo Textbook");
strcpy(sub[3][1],"Vistas Textbook");
strcpy(sub[3][2],"Flemingo ND");
strcpy(sub[3][3],"Vistas ND\t");
strcpy(sub[3][4],"Golden Guide");
strcpy(sub[4][0],"Sumita Arora");
strcpy(sub[4][1],"Together With");
strcpy(sub[4][2],"Evergreen C++");
strcpy(sub[4][3],"RohitQuestionBank");
strcpy(sub[4][4],"Osborne\t");
strcpy(s[0],"Physics\t");
strcpy(s[1],"Chemistry\t");
strcpy(s[2],"Maths\t");
strcpy(s[3],"English\t");
strcpy(s[4],"Computer Science");
}
};
void show();
void show2();
class userlist
{
    public:
    int no;
    char users[100][50];
};
class user
{
    public:
    int sbj[5][7],totp,totr;
    char password[20];
    void showpb()
    {
        cout<<"\n\n\n\n\n\n 'P' Purchase\n 'B' Back";
    }
};
void uppercase(char *);
void pur_ret(char name[]);
void notification(user &);
void setdefault(user &);
void chkusrlst();
void chkbooklst();
void showuserlist();
int crtusr();
int showbooks();

```

```

int openacc();
void namecutter(char name[]);
int main()
{
    textbackground(7);
    textcolor(0);
    chkusrlist();
    chkbooklist();
    clrscr();
    gotoxy(29,10);
    cout<<" WELCOME ";
    gotoxy(24,12);
    system("pause");
    mpage:
    clrscr();
    char ch;
    gotoxy(20,6);
    cout<<" Welcome To RAHUL`S BOOKSHOP \n\n '1' See the ";
    cout<<"lists of books\n '2' Create an account\n '3' Open an account";
    cout<<"\n '4' See about no. of books purchased/returned\n";
    cout<<" '5' See the list of accounts\n '6' Quit";
    show();
    ch=getch();
    switch(ch)
    {
    case '1': if(showbooks()==1)
        {
            goto mpage;
        }
        break;

    case '2':
        crtusr();
        goto mpage;

    case '3':
        openacc();
        goto mpage;

    case '4':
        pur_ret("BOOKLIST");
        goto mpage;

    case '5':
        showuserlist();

```

```
goto mpage;
```

```
case '6':  
clrscr();  
gotoxy(29,10);  
cout<<" THANK YOU ";  
gotoxy(24,12);  
system("pause");  
return 0;
```

```
default:  
goto mpage;
```

```
}  
getch();  
return 0;  
}
```

```
int crtusr()  
{  
clrscr();  
char name[50],reply;  
ifstream fi;  
user u;userlist list;  
fi.open("USERLIST");  
fi.read((char *) &list,sizeof(list));  
fi.close();
```

```
if(list.no==99)  
{  
clrscr();  
cout<<"\n\tYou can't create any account.\n\t";  
cout<<"Since the accoutn list is full,\n\tso you have to";  
cout<<" delete an account";show2();getch();  
return 0;
```

```
}  
cout<<"\n Enter your name(max 49 characters):\n ";  
page2:  
cin.getline(name,49);  
uppercase(name);  
if(name[0]=='\0'||name[0]==' ')  
{  
clrscr();  
cout<<"\n Please enter a valid name:";  
goto page2;
```

```

}

for(int i=0;name[i]!='\0';i++)
{
    if(name[i]=='\\'||name[i]=='/'||name[i]==':'||name[i]=='*'||name[i]=='?'||name[i]=='\"||
name[i]=='<'||name[i]=='>'||name[i]=='|')
    {
        clrscr();
        cout<<"\n Please enter a valid name:";
        goto page2;
    }
}

fi.open(name);
if(fi.good())
{
    clrscr();
    cout<<"\n The name you have entered is already present!";
    cout<<"\n Please enter another:\n ";
    goto page2;
}

fi.close();
page:
clrscr();
cout<<"\n Do you want to add a password? (y/n):";
reply=getch();
if(reply=='Y'||reply=='y')
{
    clrscr();
    cout<<"\n Enter your password(max 19 characters):\n ";
    cin.getline(u.password,19);
}

else if(reply=='N'||reply=='n')
{
    strcpy(u.password,"#####");
}
else
{
    goto page;
}

setdefault(u);
ofstream fo(name);
fo.write((char *) &u,sizeof(u));
fo.close();
strcpy(list.users[list.no],name);

```

```

list.no++;
fo.open("USERLIST");
fo.write((char *) &list,sizeof(list));
fo.close();
clrscr();
cout<<"\n\n\tCongratulations! ";
cout<<"You have created your account of name:\n\t"<<name<<"";
show2();
getch();
return 0;
}
void setdefault(user &usr)
{
    int i,j;

    for(i=0;i<5;i++)
    {
        for(j=0;j<7;j++)
        {
            usr.sbj[i][j]=0;
        }
    }
    usr.totp=0;
    usr.totr=0;
}
void chkusrlst()
{
    ifstream usrlst;
    usrlst.open("userlist");

    if(!usrlst.good())
    {
        ofstream fo("userlist");
        userlist list;
        list.no=0;
        fo.write((char *) &list,sizeof(list));
        fo.close();
    }
    usrlst.close();
}
void chkbooklst()
{
    ifstream booklst;int i,j;
    booklst.open("booklist");

```



```

if(!booklst.good())
{
    ofstream fo("booklist");
    user bklst;

    for(i=0;i<5;i++)
    {
        for(j=0;j<5;j++)
        {
            bklst.sbj[i][j]=1000;
        }
    }

    for(i=0;i<5;i++)
    {
        bklst.sbj[i][5]=0;bklst.sbj[i][6]=0;

    }
    bklst.totp=0;bklst.totr=0;
    fo.write((char *)&bklst,sizeof(bklst));
    fo.close();
}
booklst.close();
}

int showbooks()
{
    user guest;
    subject sb;
    char i,k,ch,ch1,ch2;
    int x,y,j;
    page1:
    clrscr();
    ifstream fi("Booklist");
    fi.read((char *) &guest,sizeof(guest));
    fi.close();
    cout<<"\n\n\n\n\n\n\n\n";

    for(x=0;x<5;x++)
    {
        cout<<" "<<x+1<<" "<<sb.s[x]<<"\n";
    }
    cout<<" 'B' Back";
    show();
    ch=getch();
}

```

```

for(i='1',x=0;i<='5';i++,x++)
{
    page2:
    clrscr();

    if(ch==i)
    {
        cout<<"\n\n\n\t\t"<<sb.s[x]<<"\n\n\n\n";

        for(j=0;j<5;j++)
        {
            cout<<"\t"<<j+1<<"\t"<<sb.sub[x][j]<<"\t";
            cout<<guest.sbj[x][j]<<" remaining\n";
        }
        cout<<" 'B' Back";
        show();
        ch1=getch();
        for(k='1',y=0;k<='5';k++,y++)
        {

            if(ch1==k)
            {
                page3:
                clrscr();
                cout<<"\n\t\t\t\t"<<sb.sub[x][y];
                guest.showpb();show();ch2=getch();

                if(ch2=='P' || ch2=='p')
                {

                    if(guest.sbj[x][y]>0)
                    {
                        guest.totp++;
                        guest.sbj[x][5]++;
                        guest.sbj[x][y]--;
                        notification(guest);
                    }
                    else
                    {
                        clrscr();
                        cout<<"\n\n\t\tYou can't purchase this book.\n\t\tMake ";
                        cout<<"sure that no. of copies of this book\n\tin ";
                        cout<<"this shop is greater than zero.";
                        show2();
                    }
                }
            }
        }
    }
}

```

```

        getch();
        goto page2;
    }
}
else if(ch2=='B' || ch2=='b')
{
    goto page2;
}
else
{
    goto page3;
}
break;
}
}
if(ch1=='B' || ch1=='b')
{
    goto page1;
}
else
{
    goto page2;
}
}
}

if(ch=='B' || ch=='b')
{
    return 1;
}
else
{
    goto page1;
}
}

void notification(user &u)
{
    clrscr();
    ofstream f("BOOKLIST");
    f.write((char *) &u, sizeof(u));
    f.close();
    cout<<"\n\n\n\n\n\tThank you for your purchasing this book. ";
    cout<<"Next time you must create\n\tan account so that you can ";
    cout<<"purchase more than one book and also can\n\treturn books";
}

```

```

cout<<" purchased from this shop.\n\n\n\n\n";
cout<<"\tNow press any key to exit";
getch();
exit(0);
}
void show()
{
    cout<<"\n\n\n\n\n\tPress any of the keys given above!";
}
void show2()
{
    cout<<"\n\n\n\n\n\tPress any key to back!";
}
void pur_ret(char name[])
{
    clrscr();
    user u;
    subject s;
    ifstream fi(name);
    int i;
    fi.read((char *) &u,sizeof(u));fi.close();
    cout<<"\n\n\n\n Subject\t\tPurchased\tReturned\n\n\n\n";
    for(i=0;i<5;i++)
    {
        cout<<" "<<i+1<<"."<<" "<<s.s[i]<<"\t"<<u.sbj[i][5];
        cout<<"\t\t"<<u.sbj[i][6]<<"\n";
    }
    cout<<" 6.Total\t\t"<<u.totp<<"\t\t"<<u.totr;show2();
    getch();
}
int openacc()
{
    user u,bklst;
    userlist list;
    char name[50],passw[20],reply;
    ofstream fo;
    page1: clrscr();
    cout<<"\n Enter your account name:\n ";
    cin.getline(name,49);
    uppercase(name);
    ifstream fi(name);
    if(!fi.good())
    {
        pagename:
        clrscr();
    }
}

```

```

cout<<"\n\n Wrong account name!\n Enter again?(y/n)\n ";
reply=getch();
if(reply=='y' || reply=='Y')
{
    goto page1;
}
else
if(reply=='n' || reply=='N')
{
    return 0;
}
else
{
    goto pagename;
}
}
fi.read((char *) &u,sizeof(u));
fi.close();
fi.open("USERLIST");
fi.read((char *) &list,sizeof(list));
fi.close();
int flag=0;
for(int s=0;s<list.no;s++)
{
    if(!strcmp(name,list.users[s]))
    {
        flag=1;
        break;
    }
}
if(flag==0)
{
    strcpy(list.users[list.no],name);
    list.no++;
    fo.open("USERLIST");
    fo.write((char *) &list,sizeof(list));
    fo.close();
}
if(!strcmp(u.password,"#####"))
{
    goto page3;
}
page2:
clrscr();
cout<<"\n Enter your password:\n ";

```

```

cin.getline(passw,19);
if(strcmp(u.password,passw))
{
    pagepass:
    clrscr();
    cout<<"\n\n Wrong password!\n Enter again?(y/n)\n ";
    reply=getch();
    if(reply=='y' || reply=='Y')
    {
        goto page2;
    }
    else
    if(reply=='n' || reply=='N')
    {
        return 0;
    }
    else
    {
        goto pagepass;
    }
}
page3:
clrscr();
fi.open("BOOKLIST");
fi.read((char *) &bklst,sizeof(bklst));
fi.close();
cout<<"\n\n\n\tWelcome "<<name;
cout<<"\n\n\n\n '1' Purchase/return books\n '2' No. of books";
cout<<" you are having\n '3' No. of books purchased/retutned ";
cout<<"by you\n'4'Add/modify password\n'5' Remove password\n ";
cout<<"'6' Delete your account\n 'B' Back";
show();
reply=getch();
if(reply=='1')
{
    subject sb;
    char i,k,ch,ch1,ch2;
    int x,y,j;

    page31:
    clrscr();
    cout<<"\n\n\n\n\n\n\n\n\n";
    for(x=0;x<5;x++)
    {
        cout<<" "<<x+1<<" "<<sb.s[x]<<"\n";
    }
}

```

```

}
cout<<" 'B' Back";
show();
ch=getch();
for(i='1',x=0;i<='5';i++,x++)
{
    page32: clrscr();
    if(ch==i)
    {
        cout<<"\n\n\n\t\t"<<sb.s[x]<<"\n\n\n\n";
        for(j=0;j<5;j++)
        {
            cout<<" \' "<<j+1<<"\' "<<sb.sub[x][j]<<"\t";
            cout<<bklst.sbj[x][j]<<" remaining\n";
        }
        cout<<" 'B' Back";
        show();
        ch1=getch();
        for(k='1',y=0;k<='5';k++,y++)
        {
            if(ch1==k)
            {
                page33: clrscr();
                cout<<"\n\t\t\t\t"<<sb.sub[x][y];
                u.showpb();
                cout<<"\n 'R' Return";
                show();
                ch2=getch();
                if(ch2=='P' || ch2=='p')
                {
                    if(bklst.sbj[x][y]>0)
                    {
                        u.totp++;
                        bklst.totp++;
                        u.sbj[x][5]++;
                        bklst.sbj[x][5]++;
                        u.sbj[x][y]++;
                        bklst.sbj[x][y]--;
                        fo.open("BOOKLIST");
                        fo.write((char *) &bklst,sizeof(bklst));
                        fo.close();
                        fo.open(name);
                        fo.write((char *) &u,sizeof(u));
                        fo.close();
                        clrscr();
                    }
                }
            }
        }
    }
}

```

```

    cout<<"\n\n\tOK! You have purchased this book";
}
else
{
    clrscr();
    cout<<"\n\n\tYou can't purchase this book.\n\tMake ";
    cout<<"sure that no. of copies of this book\n\tin ";
    cout<<"this shop is greater than zero.";
}
show2();
getch();
goto page32;
}
else if(ch2=='r' || ch2=='R')
{
    if(u.sbj[x][y]>0)
    {
        u.totr++;
        bklst.totr++;
        u.sbj[x][6]++;
        bklst.sbj[x][6]++;
        u.sbj[x][y]--;
        bklst.sbj[x][y]++;
        fo.open("BOOKLIST");
        fo.write((char *) &bklst,sizeof(bklst));
        fo.close();
        fo.open(name);
        fo.write((char *) &u,sizeof(u));
        fo.close();
        clrscr();
        cout<<"\n\n\tOK! You have returned this book";
    }
    else
    {
        clrscr();
        cout<<"\n\n\tYou can't return this book.\n\tMake ";
        cout<<"sure that no. of copies of this book\n\tyou";
        cout<<" are having is greater than zero.";
    }
    show2();
    getch();
    goto page32;
}
else if(ch2=='B' || ch2=='b')
{

```



```

    goto page32;
}
else
{
    goto page33;
}
}
}
if(ch1=='B' || ch1=='b')
{
    goto page31;
}
else
{
    goto page32;
}
}
}
if(ch=='B' || ch=='b')
{
    goto page3;
}
else
{
    goto page31;
}
}
else if(reply=='2')
{
    clrscr();
    int i,j;

    for(i=0;i<5;i++)
    {
        subject sb;
        cout<<"\n " <<sb.s[i]<<"\n";

        for(j=0;j<5;j++)
        {
            cout<<" "<<j+1<<" ". <<sb.sub[i][j]<<"\t"<<u.sb.j[i][j];
            cout<<" remaining\n";
        }
    }

    show2();

```

```

    getch();
    goto page3;
}
else if(reply=='3')
{
    pur_ret(name);
    goto page3;
}
else if(reply=='4')
{
    clrscr();
    cout<<"\n Enter new password(max 19 characters):\n ";
    cin.getline(passw,19);
    strcpy(u.password,passw); clrscr();
    cout<<"\n\tPassword modified succesfully!";
    show2();
    getch();
    fo.open(name);
    fo.write((char *) &u,sizeof(u));
    fo.close();
    goto page3;
}
else if(reply=='5')
{
    page35:
    clrscr();
    cout<<"\n Remove password?(y/n):";
    reply=getch();

    if(reply=='Y' || reply=='y')
    {
        strcpy(u.password,"#####");
        fo.open(name);
        fo.write((char *) &u,sizeof(u)); fo.close();
        clrscr();
        cout<<"\n\tPassword removed successfully!";
        show2();
        getch();
        goto page3;
    }
    else if(reply=='N' || reply=='n')
    {
        goto page3;
    }
    else

```

```

{
    goto page35;
}
}
else if(reply=='6')
{
    page36:
    clrscr();
    cout<<"\n Do you want to delete your account?(y/n):";
    reply=getch();

    if(reply=='Y' || reply=='y')
    {
        clrscr();
        remove(name);
        cout<<"\n\tYour account is deleted successfully!";
        show2();
        getch();
        namecutter(name);
        return 0;
    }
    else if(reply=='N' || reply=='n')
    {
        goto page3;
    }
    else
    {
        goto page36;
    }
}
else if(reply=='b' || reply=='B')
{
    page3b:
    clrscr();
    cout<<"\n Do you want to exit from your account?(y/n):";
    reply=getch();
    if(reply=='Y' || reply=='y')
    {
        return 0;
    }
    else
    if(reply=='N' || reply=='n')
    {
        goto page3;
    }
}

```

```

    else
    {
        goto page3b;
    }
}
else
{
    goto page3;
}
}
void uppercase(char *a)
{
    for(int i=0;a[i]!='\0';i++)
    {
        a[i]=toupper(a[i]);
    }
}
void showuserlist()
{
    clrscr();
    int i;
    userlist list;
    ifstream fi("USERLIST");
    fi.read((char *) &list,sizeof(list));
    fi.close();
    for(i=0;i<list.no;i++)
    {
        cout<<"\n "<<i+1<<". "<<list.users[i];
    }
    show2();
    getch();
}
void namecutter(char name[])
{
    userlist u;
    char temp[50];
    int i;
    ifstream fi("USERLIST");
    fi.read((char *) &u,sizeof(u)); fi.close();

    for(i=0;i<u.no-1;i++)
    {
        if(strcmp(u.users[i],name)==0)
        {
            strcpy(temp,u.users[i]);

```

```
strcpy(u.users[i],u.users[i+1]);
strcpy(u.users[i+1],temp);
}
}
u.no--;
ofstream fo("USERLIST");
fo.write((char *) &u,sizeof(u));
fo.close();
}
```

Note: always copy and paste this code into turbo c++ compiler.

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