#include <iostream>

#include <windows.h>

#include <cstdlib>

#include <conio.h>

#include <fstream>

#include <iomanip.h>

#include <math.h>

#define BLACK 0

#define LIGHTGRAY 8

#define BLUE 9

#define GREEN 10

#define RED 12

#define YELLOW 14

#define WHITE 15

#define BACKMENU {cout<<"Nhap nut bat ki quay lai menu."; getch();}

using namespace std;

void textcolor(WORD color) /\* Khai bao mot so ham phuc vu menu dong \*/

{

HANDLE hConsoleOutput;

hConsoleOutput = GetStdHandle(STD\_OUTPUT\_HANDLE);

CONSOLE\_SCREEN\_BUFFER\_INFO screen\_buffer\_info;

GetConsoleScreenBufferInfo(hConsoleOutput, &screen\_buffer\_info);

WORD wAttributes = screen\_buffer\_info.wAttributes;

color &= 0x000f;

wAttributes &= 0xfff0;

wAttributes |= color;

SetConsoleTextAttribute(hConsoleOutput, wAttributes);

}

void textbackground(WORD color)

{

HANDLE hConsoleOutput;

hConsoleOutput = GetStdHandle(STD\_OUTPUT\_HANDLE);

CONSOLE\_SCREEN\_BUFFER\_INFO screen\_buffer\_info;

GetConsoleScreenBufferInfo(hConsoleOutput, &screen\_buffer\_info);

WORD wAttributes = screen\_buffer\_info.wAttributes;

color &= 0x000f;

color <<= 4;

wAttributes &= 0xff0f;

wAttributes |= color;

SetConsoleTextAttribute(hConsoleOutput, wAttributes);

}

void gotoxy(short x,short y)

{

HANDLE hConsoleOutput;

COORD Cursor\_an\_Pos = { x,y};

hConsoleOutput = GetStdHandle(STD\_OUTPUT\_HANDLE);

SetConsoleCursorPosition(hConsoleOutput , Cursor\_an\_Pos);

}

void ancontro()

{

HANDLE hOut;

CONSOLE\_CURSOR\_INFO ConCurInf;

hOut = GetStdHandle(STD\_OUTPUT\_HANDLE);

ConCurInf.dwSize = 10;

ConCurInf.bVisible = FALSE;

SetConsoleCursorInfo(hOut,&ConCurInf);

}

void hiencontro()

{

HANDLE hOut;

CONSOLE\_CURSOR\_INFO ConCurInf;

hOut = GetStdHandle(STD\_OUTPUT\_HANDLE);

ConCurInf.dwSize = 10;

ConCurInf.bVisible = TRUE;

SetConsoleCursorInfo(hOut,&ConCurInf);

}

struct sach{

long mss;

char tensach[50];

char linhvuc[50];

float Danhgia;

long ngay;

int thang;

int nam;

}; /\* khai bao bo nho \*/

template<class T> /\* dinh nghia ham doi cho hai phan tu \*/

void doicho(T &a,T &b)

{ T c;

c=a;a=b;b=c;}

void doicho(char a[],char b[]){

char cn[1000];

strcpy(cn,a);

strcpy(a,b);

strcpy(b,cn);

};

void hienthi(){ /\* dinh nghia ham hien thi khung danh sach \*/

cout<<setw(5)<<"MSS:";

cout<<setw(18)<<"Ten sach: ";

cout<<setw(18)<<"Linh Vuc: ";

cout<<setw(22)<<"Ngay xuat ban: ";

cout<<setw(15)<<"Diem xep hang:";

cout<<endl;

}

int lc; /\* bien toan cuc lc \*/

class danhsach /\* lop danh sach \*/

{

private:

int k,n;

sach sak[600]; /\* khai bao 600 phan tu \*/

public:

danhsach(){int k=0; int n=0;}; /\* ham tao \*/

int nhapsak() { /\* ham nhap thong tin sach \*/

textcolor(15);

system("cls");

k=n;

int i,dem=0,dem1;

gotoxy(25,3);

cout<<"Thong tin quyen sach thu "<<k+1<<endl;

do{

do{

cout<<"\nNhap mss: ";

cin>>sak[k].mss;

if ((sak[k].mss<=00000000)||(sak[k].mss>=99999999)) cout<<"Ma so sach khong hop le, moi nhap lai";

} while((sak[k].mss<=00000000)||(sak[k].mss>=99999999));

for (i=0;i<n;i++)

{ if (sak[k].mss==sak[i].mss) dem++;

}

if (dem!=0) cout<<"Ma sach da ton tai. Xin moi nhap lai ma so sach khac";

dem1=dem;

dem=0; /\* Kiem tra ma sach da ton tai hay chua va co hop le khong \*/

}while(dem1!=0);

cout<<"Nhap ten sach: ";

cin.ignore();

cin.getline( sak[k].tensach, 50 );

cout<<"Linhvuc(vd: Truyen cuoi): ";

cin.getline( sak[k].linhvuc, 50);

cout<<"Nhap ngay/thang/nam xuat ban:"<<endl;

do{

do{

do{

cout<<"\n\tNgay xuat ban: ";cin>>sak[k].ngay;

if ((sak[k].ngay<=0)||(sak[k].ngay>31)) cout<<"Ngay xuat ban khong hop le, xin moi nhap lai ";

} while ((sak[k].ngay<=0)||(sak[k].ngay>31));

do{ cout<<"\n\tThang xuat ban: "; cin>>sak[k].thang;

if ((sak[k].thang<=0)||(sak[k].thang>12)) cout<<"Thang xuat ban khong hop le, xin moi nhap lai";

} while ((sak[k].thang<=0)||(sak[k].thang>12));

do {

cout<<"\n\tNam xuat ban: ";

cin>>sak[k].nam;

if ((sak[k].nam<=0)||(sak[k].nam>=2014)) cout<<"Nam xuat ban khong dung, xin moi nhap lai";

}while((sak[k].nam<=0)||(sak[k].nam>=2014));

if ((sak[k].ngay==29)&&(sak[k].thang==2)&&(sak[k].nam%4!=0)) cout<<"Nam nhap khong phai nam nhuan, moi nhap lai ngay thang nam xuat ban";

}while((sak[k].ngay==29)&&(sak[k].thang==2)&&(sak[k].nam%4!=0));

if ((sak[k].ngay==30)&&(sak[k].thang==2)) cout<<"Thong tin khong dung, xin moi nhap lai ngay thang nam xuat ban";

}while ((sak[k].ngay==30)&&(sak[k].thang==2)); /\* Lenh kiem tra thong tin ngay xuat ban co hop le khong\*/

do{

cout<<"Diem xep hang sach: ";

cin>>sak[k].Danhgia;

if(sak[k].Danhgia<0.00||sak[k].Danhgia>10.00) cout<<"Ban co chac chan ve xep hang cua quyen sach nay? Xin moi nhap lai. "<<endl;

}while(sak[k].Danhgia<0.00||sak[k].Danhgia>10.00); /\* kiem tra xep hang nhap vao co chinh xac khong \*/

n++; /\* Sau moi lan quay lai menu se nhap duoc quyen sach tiep theo \*/

};

void inra(){ /\* ham in ra danh sach \*/

textcolor(15);

system("cls");

int i;

gotoxy(0,3);

hienthi();

for (i=0;i<n;i++) {

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;

};

};

void xuatfile(){

textcolor(15);

system("cls"); /\* xuat ra file \*/

int j;

ofstream SAK ("SAK.bin");

SAK<<n<<"\n";

for(j=0;j<n;j++){

SAK<<sak[j].mss;

SAK<<endl;

SAK<<sak[j].linhvuc;

SAK<<endl;

SAK<<sak[j].Danhgia;

SAK<<endl;

SAK<<sak[j].tensach;

SAK<<endl;

SAK<<sak[j].ngay;

SAK<<endl;

SAK<<sak[j].thang;

SAK<<endl;

SAK<<sak[j].nam;

SAK<<endl;

}

gotoxy(30,3);

cout<<"Da luu ra file sak.bin"<<endl;

};

int mofile(){

textcolor(15);

system("cls"); /\* Mo file \*/

int l;

ifstream SAK ("SAK.bin");

if(! SAK.is\_open())

{

cout<<"File khong ton tai, xin moi quay lai menu de tao file.\n";

BACKMENU;

return 0;

}

else {

SAK>>n;

for(l=0;l<n;l++)

{ SAK>>sak[l].mss;

SAK.getline(sak[l].linhvuc,250);

SAK.getline(sak[l].linhvuc,250);

SAK>>sak[l].Danhgia;

SAK.getline(sak[l].tensach,250);

SAK.getline(sak[l].tensach,250);

SAK>>sak[l].ngay;

SAK>>sak[l].thang;

SAK>>sak[l].nam;

}

gotoxy(0,3);

hienthi();

for(l=0;l<n;l++) {

cout<<setw(5)<<sak[l].mss;

cout<<setw(20)<<sak[l].tensach;

cout<<setw(18)<<sak[l].linhvuc;

cout<<setw(5)<<sak[l].ngay<<"/"<<setw(2)<<sak[l].thang<<"/"<<setw(2)<<sak[l].nam;

cout<<setw(15)<<sak[l].Danhgia<<endl;}

}

SAK.close();

return 1;

};

void sapxep(){

textcolor(15); /\* ham sap xep Bubble Sort\*/

system("cls");

int i,j;

long b;

char s[50];

char r[10];

float a;

long c;

int d;

int e;

for(i=0;i<n-1;i++)

{for(j=n-1;j>i;j--)

{if (sak[j].Danhgia>sak[j-1].Danhgia){doicho(sak[j-1].mss,sak[j].mss);

doicho(sak[j-1].Danhgia,sak[j].Danhgia);

doicho(sak[j-1].ngay,sak[j].ngay);

doicho(sak[j-1].thang,sak[j].thang);

doicho(sak[j-1].nam,sak[j].nam);

doicho(sak[j-1].tensach,sak[j].tensach);

doicho(sak[j-1].linhvuc,sak[j].linhvuc);};

}

};

gotoxy(0,3);

hienthi();

for(i=0;i<n;i++) {

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;}

};

void timkiem(){ /\* ham tim kiem sach\*/

textcolor(15);

system("cls");

long masak,mss1;

char ht[50];

float diem;

int i,j=0,dem=0,dem1=0,dem2=0,l=0,m,d;

int kt=0,kt1;

int ch;

char chon;

sach sak1[100];

if (lc==1) { system("cls");

gotoxy(0,3);textcolor(15);

cout<<"Moi ban nhap vao ma sach can tim: "; /\* tim kiem theo ma sinh vien \*/

cin>>masak;

for (i=0;i<n;i++)

{ if (sak[i].mss==masak)

{ hienthi();

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;

dem++;}

}

if (dem==0) cout<<"Khong ton tai quyen sach trong danh sach."<<endl;

else {cout<<"Ban co muon chinh sua thong tin quyen sach nay khong(y/n)? ";

cin>>chon;

if (chon=='y') { /\* goi lai cac buoc de nhap vao thong tin sach moi \*/

do{

do{

cout<<"\nNhap mss: ";

cin>>sak[j].mss;

if ((sak[j].mss<=00000000)||(sak[j].mss>=99999999)) cout<<"Ma sach khong hop le, moi nhap lai";

} while((sak[j].mss<=00000000)||(sak[j].mss>=99999999));

for (i=0;i<n;i++)

{ if (sak[j].mss==sak[i].mss) kt++;

}

if (kt>1) cout<<"Ma sach da ton tai. Xin moi nhap lai ma so sach khac"<<endl;

kt1=kt;

kt=0;

}while(kt1>1);

cout<<"Nhap ten sach: ";

cin.ignore();

cin.getline( sak[j].tensach, 50 );

cout<<"Linhvuc(vd: TRUYEN CUOI): ";

cin.getline( sak[j].linhvuc, 50 );

cout<<"Nhap ngay/thang/nam xuat ban:"<<endl;

do{

do{

do{

cout<<"\n\tNgay xuat ban: ";cin>>sak[j].ngay;

if ((sak[j].ngay<=0)||(sak[j].ngay>31)) cout<<"Ngay xuat ban khong hop le, xin moi nhap lai ";

} while ((sak[j].ngay<=0)||(sak[j].ngay>31));

do{ cout<<"\n\tThang xuat ban: "; cin>>sak[j].thang;

if ((sak[j].thang<=0)||(sak[j].thang>12)) cout<<"Thang xuat ban khong hop le, xin moi nhap lai";

} while ((sak[j].thang<=0)||(sak[j].thang>12));

do { cout<<"\n\tNam xuat ban: ";

cin>>sak[j].nam;

if ((sak[j].nam<=0)||(sak[j].nam>=2014)) cout<<"Nam xuat ban khong dung, xin moi nhap lai";

}while((sak[j].nam<=0)||(sak[j].nam>=2014));

if ((sak[j].ngay==29)&&(sak[j].thang==2)&&(sak[j].nam%4!=0)) cout<<"Nam nhap khong phai nam nhuan, moi nhap lai ngay thang nam xuat ban";

}while((sak[j].ngay==29)&&(sak[j].thang==2)&&(sak[j].nam%4!=0));

if ((sak[j].ngay==30)&&(sak[j].thang==2)) cout<<"Thong tin khong dung, xin moi nhap lai ngay thang nam xuat ban";

}while ((sak[j].ngay==30)&&(sak[j].thang==2));

do{

cout<<"Danh gia sach: ";

cin>>sak[j].Danhgia;

if(sak[j].Danhgia<0.00||sak[j].Danhgia>10.00) cout<<"Ban co chac chan ve diem cua quyen sach nay? Xin moi nhap lai. "<<endl;

}while(sak[j].Danhgia<0.00||sak[j].Danhgia>10.00);

}

}

};

if (lc==2) { system("cls");

gotoxy(0,3);textcolor(15);

cout<<"Moi ban nhap vao ten sach can tim: "; /\* tim kiem theo ten sach \*/

cin.getline(ht,50);

hienthi();

for (i=0;i<n;i++)

{

if (strcmp(sak[i].tensach,ht)==0)

{

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;

dem1++;}

};

if (dem1==0) cout<<"Khong ton tai quyen sach trong danh sach."<<endl;

};

if(lc==3) { system("cls");

gotoxy(0,3); textcolor(15);

cout<<"Moi ban nhap vao xep hang sach can tim: "; /\* tim kiem theo thu hang\*/

cin>>diem;

hienthi();

for (i=0;i<n;i++)

{ if (sak[i].Danhgia==diem)

{

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;

dem2++;}

}

if (dem2==0) cout<<"Khong ton tai quyen sach trong danh sach."<<endl;

};

}

void chinhsua(){ /\* ham chinh sua thong tin sach trong danh sach \*/

textcolor(15);

system("cls");

float mss1;

int m,d,kt=0,kt1;

int dem=0;

textcolor(15);

int i;

gotoxy(0,3);

hienthi();

for (i=0;i<n;i++) {

cout<<setw(5)<<sak[i].mss;

cout<<setw(20)<<sak[i].tensach;

cout<<setw(18)<<sak[i].linhvuc;

cout<<setw(5)<<sak[i].ngay<<"/"<<setw(2)<<sak[i].thang<<"/"<<setw(2)<<sak[i].nam;

cout<<setw(15)<<sak[i].Danhgia<<endl;

};

cout<<"Ban muon chinh sua thong tin sach co ma so: ";

cin>>mss1;

for(m=0;m<n;m++)

if (sak[m].mss==mss1) {

dem++;

do{ /\* goi lai cac buoc de nhap vao thong tin sach\*/

do{

cout<<"\nNhap mss: ";

cin>>sak[m].mss;

if ((sak[m].mss<=00000000)||(sak[m].mss>=99999999)) cout<<"Ma sach khong hop le, moi nhap lai";

} while((sak[m].mss<=00000000)||(sak[m].mss>=99999999));

for (d=0;d<n;d++)

{ if (sak[m].mss==sak[d].mss) kt++;

}

if (kt>1) cout<<"Ma sach da ton tai. Xin moi nhap lai ma so sach khac"<<endl;

kt1=kt;

kt=0;

}while(kt1>1);

cout<<"Nhap ten: ";

cin.ignore();

cin.getline( sak[m].tensach, 50 );

cout<<"Linhvuc(vd: Truyen cuoi): ";

cin.getline( sak[m].linhvuc, 50 );

cout<<"Nhap ngay/thang/nam xuat ban:"<<endl;

do{

do{

do{

cout<<"\n\tNgay xuat ban: ";cin>>sak[m].ngay;

if ((sak[m].ngay<=0)||(sak[m].ngay>31)) cout<<"Ngay xuat ban khong hop le, xin moi nhap lai ";

} while ((sak[m].ngay<=0)||(sak[m].ngay>31));

do{ cout<<"\n\tThang xuat ban: "; cin>>sak[m].thang;

if ((sak[m].thang<=0)||(sak[m].thang>12)) cout<<"Thang xuat ban khong hop le, xin moi nhap lai";

} while ((sak[m].thang<=0)||(sak[m].thang>12));

do { cout<<"\n\tNam xuat ban: ";

cin>>sak[m].nam;

if ((sak[m].nam<=0)||(sak[m].nam>=2014)) cout<<"Nam xuat ban khong dung, xin moi nhap lai";

}while((sak[m].nam<=0)||(sak[m].nam>=2014));

if ((sak[m].ngay==29)&&(sak[m].thang==2)&&(sak[m].nam%4!=0)) cout<<"Nam nhap khong phai nam nhuan, moi nhap lai ngay thang nam xuat ban ";

}

while((sak[m].ngay==29)&&(sak[m].thang==2)&&(sak[m].nam%4!=0));

if ((sak[m].ngay==30)&&(sak[m].thang==2)) cout<<"Thong tin khong dung, xin moi nhap lai ngay thang nam xuat ban ";

}while ((sak[m].ngay==30)&&(sak[m].thang==2));

do{

cout<<"Xep hang sach: ";

cin>>sak[m].Danhgia;

if(sak[m].Danhgia<0.00||sak[m].Danhgia>10.00) cout<<"Ban co chac chan ve xep hang cua sinh vien nay? Xin moi nhap lai. "<<endl;

}while(sak[m].Danhgia<0.00||sak[m].Danhgia>10.00);

}

if (dem==0) cout<<"Khong ton tai sach can chinh sua";

};

void xoasak(){ /\* ham xoa sach theo mss\*/

textcolor(15);

system("cls");

long mss;

int i,j,m,dem=0;

gotoxy(0,3);

cout<<"Ban muon xoa sach co mss: ";

cin>>mss;

for(m=0;m<n;m++)

if (sak[m].mss==mss) {

for (i=m;i<n-1;i++) {

sak[i].mss=sak[i+1].mss;

sak[i].ngay=sak[i+1].ngay;

sak[i].thang=sak[i+1].thang;

sak[i].nam=sak[i+1].nam;

sak[i].Danhgia=sak[i+1].Danhgia;

strcpy(sak[i].tensach,sak[i+1].tensach);

strcpy(sak[i].linhvuc,sak[i+1].linhvuc);

}

n=n-1;

dem++;

}

if (dem==0) {cout<<"Khong ton tai sach co mss: "<<mss<<endl;

}

cout<<"Danh sach sau khi xoa sach: "<<endl<<endl;

hienthi();

for (j=0;j<n;j++)

{

cout<<setw(5)<<sak[j].mss;

cout<<setw(20)<<sak[j].tensach;

cout<<setw(18)<<sak[j].linhvuc;

cout<<setw(5)<<sak[j].ngay<<"/"<<setw(2)<<sak[j].thang<<"/"<<setw(2)<<sak[j].nam;

cout<<setw(15)<<sak[j].Danhgia<<endl;

};

}

};

class menu:public danhsach{ /\* lop menu ke thua lop danh sach \*/

private: int ct,oldlc;

public:

void ten(int n){ /\* ham bao gom mot so dong chu can dung den \*/

switch(n)

{

case 98:gotoxy(25,0);cout<<"Quay lai"<<endl; break;

case 99: gotoxy(50,0); cout<<"Thoat"<<endl; break;

case 59: { gotoxy(25,1);cout<<"\n\t\t\t+--------+------------------------+";

gotoxy(25,2);cout<<"\n\t\t\t| STT + CHUONG TRINH |";} break;

case 60:gotoxy(25,3);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 1:gotoxy(25,4);cout<<"\n\t\t\t| 1 | Nhap danh sach |"; break;

case 61:gotoxy(25,5);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 2:gotoxy(25,6);cout<<"\n\t\t\t| 2 | In ra danh sach |"; break;

case 62:gotoxy(25,7);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 3:gotoxy(25,8);cout<<"\n\t\t\t| 3 | Sap xep theo thu hang |"; break;

case 63:gotoxy(25,9);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 4:gotoxy(25,10);cout<<"\n\t\t\t| 4 | Tim kiem sach |"; break;

case 64:gotoxy(25,11);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 5:gotoxy(25,12);cout<<"\n\t\t\t| 5 | Chinh sua danh sach |"; break;

case 65:gotoxy(25,13);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 6:gotoxy(25,14);cout<<"\n\t\t\t| 6 | Luu danh sach ra file |"; break;

case 66:gotoxy(25,15);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 7: gotoxy(25,16);cout<<"\n\t\t\t| 7 | Mo danh sach tu file |"; break;

case 67:gotoxy(25,17);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 8:gotoxy(25,18);cout<<"\n\t\t\t| 8 | Xoa sach |"; break;

case 68:gotoxy(25,19);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 9:gotoxy(25,20);cout<<"\n\t\t\t| 9 | Thoat chuong trinh |"; break;

case 69:gotoxy(25,21);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 10: gotoxy(25,3);cout<<" Ban muon tim kiem theo: \*\*\*\* " ; break;

case 49:gotoxy(25,4);cout<<"\n\t\t\t+--------+------------------------+"; break;

case 11: gotoxy(25,5); cout<<"\n\t\t\t| 1 | Ma Sach |"; break;

case 50: gotoxy(25,6); cout<<"\n\t\t\t+--------+------------------------+"; break;

case 12: gotoxy(25,7); cout<<"\n\t\t\t| 2 | Ten Sach |"; break;

case 51: gotoxy(25,8); cout<<"\n\t\t\t+--------+------------------------+"; break;

case 13: gotoxy(25,9); cout<<"\n\t\t\t| 3 | Xep hang sach |"; break;

case 52: gotoxy(25,10); cout<<"\n\t\t\t+--------+------------------------+"; break;

case 14: gotoxy(25,11); cout<<"\n\t\t\t| 4 | Quay lai menu |"; break;

case 53: gotoxy(25,12); cout<<"\n\t\t\t+--------+------------------------+"; break;

}

}

void luachon(){ /\* ham lua chon de su dung phim mui ten va enter \*/

unsigned char nutgia='a',nut='a';

int tlc,maxlc,i,manglc[40];

fflush(stdin);

switch(ct){ /\* khai bao menu cho moi mot gia tri ct khac nhau \*/

case 0: maxlc=9; for(i=1;i<=9;i++) manglc[i]=i;break;

case 1:case 2: case 3: case 4: case 5: case 7: case 8: maxlc=2; manglc[1]=98;manglc[2]=99;break;

case 6: maxlc=4; manglc[1]=11;manglc[2]=12;manglc[3]=13;manglc[4]=14;break;

}

tlc=lc=oldlc; /\* ban dau\*/

tlc=lc=1;

textcolor(11);

ten(manglc[lc]);

while (nutgia!=0xD)

{

// bat phim

nutgia=getch();

if (nutgia==224) nut=getch();

if (nutgia==0x1B)

switch (ct)

{

case 0:exit(0);

}

switch (ct)

{

case 0: switch (nut)

{

case 0x4B:case 0x48: lc--; break;

case 0x4D:case 0x50: lc++; break;

}

break;

case 1:case 2:case 3:case 4:case 5:case 7:case 8: switch(nut)

{

case 0x4B: case 0x48: case 0x50:case 0x4D: lc++;break;

}break;

case 6: switch (nut)

{

case 0x4B:case 0x48: lc--; break;

case 0x4D:case 0x50: lc++; break;

}

break;

}

if (lc>maxlc) lc=1;

if (lc<1) lc=maxlc;

textcolor(15);ten(manglc[tlc]);

textcolor(11);ten(manglc[lc]);

tlc=lc; /\* chuan bi cho vong lap sau \*/

nut=0x61;

}

};

void turn(){ten(98);ten(99); /\* khai bao ham quy lai menu chinh \*/

luachon();

if (lc==2) exit(0);

if (lc==1) {oldlc=1;mainmenu();}}

void mainmenu() /\* menu chinh \*/

{

system("cls");

textcolor(15);

ct=0;

ten(59);ten(60);ten(1);ten(61);ten(2);ten(62);ten(3);ten(63);ten(4);ten(64);ten(5);ten(65);ten(6);ten(66);ten(7);ten(67);ten(8);ten(68);ten(9);ten(69);

gotoxy(1,0);textbackground(LIGHTGRAY);cout<<" \*\*\*\* QUAN LY THU VIEN DHBKHN \*\*\*\* " ;

textbackground(2);

gotoxy(1,24);textbackground(LIGHTGRAY);cout<<" Thuc hien: The, Hoan Bo mon: Ngon Ngu Lap Trinh ";

textbackground(2);

luachon();

switch (lc)

{

case 1:{ct=1;nhapsak();turn();}break;

case 2:{ct=2;inra();turn();}break;

case 3:{ct=5;sapxep(); turn();}break;

case 4: {ct=6;system("cls");system("Color 2F");ten(10);ten(49);ten(11);ten(50);ten(12);ten(51);ten(13);ten(52);ten(14);ten(53);

luachon();timkiem();if(lc==4) {oldlc=1;mainmenu();

}

ct=1;

turn();}

case 5: {ct=7;chinhsua();turn(); }break;

case 6: {ct=3;xuatfile();turn();}break;

case 7: {ct=4;mofile();turn();}break;

case 8: {ct=8;xoasak();turn();}break;

case 9: exit(0);break;

}

}

void viet(char \*xau="Cuong",int delay=15) /\* mot so ham de lam cho bai them sinh dong \*/

{

int i;

for ( i=0 ; i<strlen(xau) ; ++i)

{ putch(xau[i]);Sleep(delay);}

};

void gioithieu(){

int i;

SetConsoleTitle("Bai tap lon - NNLT - Quan ly thu vien - GV: Nguyen Thanh Binh");

system("Color 2F");

ancontro();

for (i=0;i<16;i++){ system("cls");

textbackground(2);gotoxy(25,24-i); textcolor(15);cout<<"CHUONG TRINH QUAN LY THU VIEN\n\t\t\t\t TRUONG DHBKHN"; Sleep(100);

}

gotoxy(20,13); textcolor(14);

viet("Bai tap lon",50);

viet("\tBo mon: Ngon Ngu Lap Trinh",50);

gotoxy(25,14); textcolor(12);

viet("Loading ....................^^",50 );

system("Color 2F");

system("cls");

mainmenu();

}

};

int main() /\* ham main\*/

{

menu mn;

mn.gioithieu();

system("PAUSE");

return 1;

}