# include<iostream>

#include<string.h>

using namespace std;

class publication

{

protected:

char title[100];

float price;

public:

void read()

{

cout << "\nEnter Title of the Publication : ";

cin>>title;

cout << "Enter Price of Publication : ";

cin >> price;

}

void display()

{

cout << "\nTitle of Publication : " << title;

cout << "\nPublication Price : " << price;

}

};

class book : public publication

{

public:

int page\_count;

public:

void read\_book()

{

read();

cout<<"Enter page count :";

cin>>page\_count;

try

{

if(page\_count<=0)

throw 1;

}catch(int i)

{

strcpy(title,"0");

price=0;

page\_count=0;

}

}

void display\_book()

{

display();

cout << "\nPage Count : " <<page\_count;

}

};

class tape : public publication

{

public:

float play\_time;

public:

void read\_tape()

{

read();

cout<<"Enter play time:";

cin>>play\_time;

try

{

if(play\_time<=0)

throw 1;

}catch(int i)

{

strcpy(title,"0");

price=0;

play\_time=0;

}

}

void display\_tape()

{

display();

cout << "\nPlay Time : " <<play\_time << " min";

}

};

int main()

{

book b1[10]; // object of class book

tape t1[10]; // object of class tape

int ch, b\_count = 0, t\_count = 0;

do

{

cout << "\n\* \* \* \* \* PUBLICATION DATABASE SYSTEM \* \* \* \* \*";

cout << "\n--------------------MENU-----------------------";

cout << "\n1. Add Information to Books";

cout << "\n2. Add Information to Tapes";

cout << "\n3. Display Books Information";

cout << "\n4. Display Tapes Information";

cout << "\n5. Exit";

cout << "\n\nEnter your choice : ";

cin >> ch;

switch(ch)

{

case 1:

b1[b\_count].read\_book();

b\_count ++;

break;

case 2:

t1[t\_count].read\_tape();

t\_count ++;

break;

case 3:

cout << "\n\* \* \* \* BOOK PUBLICATION DATABASE SYSTEM \* \* \* \*";

for (int j=0;j < b\_count;j++)

{

b1[j].display\_book();

}

break;

case 4:

cout << "\n\* \* \* \* TAPE PUBLICATION DATABASE SYSTEM \* \* \* \*";

for (int j=0;j < t\_count;j++)

{

t1[j].display\_tape();

}

break;

case 5:

exit(0);

}

}while (ch != 5);

return 0;

}