**ASSIGNMENT 3 43**

#include<iostream>

#include<string>

using namespace std;

class publication

{

public:

string title;

float price;

void getdata()

{

cout<<"Enter title: ";

cin.ignore();

getline(cin, title);

if (title.length() <= 0)

throw title;

cout<<"Enter price: ";

cin>>price;

if(price <= 0.0)

throw price;

cin.ignore();

}

};

class book: public publication

{

public:

int page\_count;

void getPageCount()

{

try

{

getdata();

cout<<"Enter page count: ";

cin>>page\_count;

if(page\_count < 0)

throw page\_count;

else

display();

}

catch(...)

{

cout<<"Invalid Data\n";

setdefault();

display();

}

}

void display()

{

cout<<"\nBook details\n";

cout<<"Title is: "<<title<< " \t";

cout<<"Price is: "<<price<<" \t";

cout<<"Page count is: "<<page\_count<<endl;

}

void setdefault()

{

title = " ";

price = 0;

page\_count = 0;

}

};

class tape : public publication

{

public:

float play\_time;

void getPlayTime()

{

try

{

getdata();

cout<<"Enter play time in minute: ";

cin>>play\_time;

if(play\_time < 0.0)

throw play\_time;

else

display();

}

catch(...)

{

cout<<"Invalid data\n";

setdefault();

display();

}

}

void display()

{

cout<<"\nAudio caset details\n";

cout << "Title: " << title << "\t";

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

cout << "Play time: " << play\_time << endl;

}

void setdefault()

{

title = " ";

price = 0;

play\_time = 0;

}

};

int main()

{

book b;

tape t;

cout<<"\nEnter Book Details\n";

b.getPageCount();

cout<<"\nEnter Tape Details\n";

t.getPlayTime();

return 0;

}

**OUTPUT**

Enter Book Details

Enter title: Atomic Habits

Enter price: 425

Enter page count: 279

Book details

Title is: tomic Habits Price is: 425 Page count is: 279

Enter Tape Details

Enter title: Classic songs

Enter price: 365

Enter play time in minute: 510

Audio caset details

Title: Classic songs Price: 365 Play time: 510