

Experiment 3: Imagine a publishing company which does marketing for book and audio cassette versions. Create a class publication that stores the title (a string) and price (type float) of a publication.

From this class derive two classes: book, which adds a page count (type int), and tape, which adds a playing time in minutes (type float).

Write a program that instantiates the book and tape classes, allows user to enter data and displays the data members. If an exception is caught, replace all the data member values with zero values.

```
#include<iostream.h>

class publication
{
public:
    string title;
    float price;
public:
    void getdata()
    {
        cout<<"Enter title of publication";
        cin>>title;
        cout<<"Enter price of publication";
        cin>>price;
    }

    void putdata()
    {
```

```

cout <<"Publication title:"<< title<< endl;
cout<<"Publication price:"<< price <<endl;

}

};

class book :public publication
{
public:

int pagecount;

public:

void getdata()
{

publication::getdata(); //call publication class function to get data

cout <<" Enter Book Page Count :"; //Acquire book datafrom user

cin>> pagecount;

}
void putdata()
{
publication::putdata();//show publication data
cout <<"book page count"<< pagecount<<endl;//show book data

}
};

class tape:public publication
{

private:
float ptime;
public:
void getdata()
{
publication::getdata();
cout<<"Enter tape s playing time(in min)";
cin>>ptime;
}
void putdata()
{
publication::putdata();
cout<<"tapes playing time" <<ptime<<endl;
}
}

```

```
};  
int main()  
{  
    book b;  
    tape t;  
    b.getdata();  
    t.getdata();  
    b.putdata();  
    t.putdata();  
    return 0;  
}
```