

Code:

```
#include <iostream>
#include <string.h>
#include <exception>
using namespace std;

class Publication
{
private:
    string title;
    float price;

public:
    Publication()
    {
        this->title = "";
        this->price = 0.0;
    }

    void getData()
    {
        cout << "Enter title: ";
        cin >> title;
        cout << "Enter price: ";
        cin >> price;
    }

    void display()
    {
        cout<<"\n";
        cout << "Title: " << title << endl;
        cout << "Price: Rs." << price << endl;
    }
};

class Book: public Publication
{
private:
    int page_count;
public:
    Book()
    {
        this->page_count = 0;
    }

    void getData()
    {
        Publication::getData();
    }
};
```

```

        cout<<"Enter page count: ";
        cin>>page_count;
    }

    void display()
    {
        Publication::display();
        cout<<"Page Count: "<<page_count<<endl;
        cout<<"\n";
    }

};

class Tape : public Publication
{
private:
    float time;
public:
    Tape()
    {
        this->time = 0.0;
    }

    void getData()
    {
        Publication::getData();
        cout<<"Enter time: ";
        cin>>time;
    }

    void display()
    {
        Publication::display();
        cout<<"Time: "<<time<<endl;
        cout<<"\n";
    }

};

int main()
{
    Book book;
    Tape tape;

    try
    {
        cout<<"Enter book details: \n";
        book.getData();
    }

```

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        cout<<"Enter tape details: \n";
        tape.getData();

        cout<<"Book details: \n";
        book.display();

        cout<<"tape details: \n";
        tape.display();

    }
    catch(const exception& e)
    {
        cerr << e.what() << '\n';

        book = Book();
        tape = Tape();
    }
}

```

Output:

```

PS D:\Education\Degree\Third Sem\Object Oriented Programming\Lab Assignment\Codes> cd "d:\Education\Degree\Third Sem\Object Oriented Programming\Lab Assignment\Codes" ; if ($?) { g++ books_cassetts.cpp -o books_cassetts } ; if ($?) { .\books_cassetts }
Enter book details:
Enter title: Geeta
Enter price: 300.45
Enter page count: 690
Enter tape details:
Enter price: 670.33
Enter time: 45.56
Book details:

Title: Geeta
Price: Rs.300.45
Page Count: 690

tape details:

Title: Lata
Price: Rs.670.33
Time: 45.56

```