

Assignment – 03

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Subject: OOP Lab

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Batch: E-1

Problem Statement:

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 publications. 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).

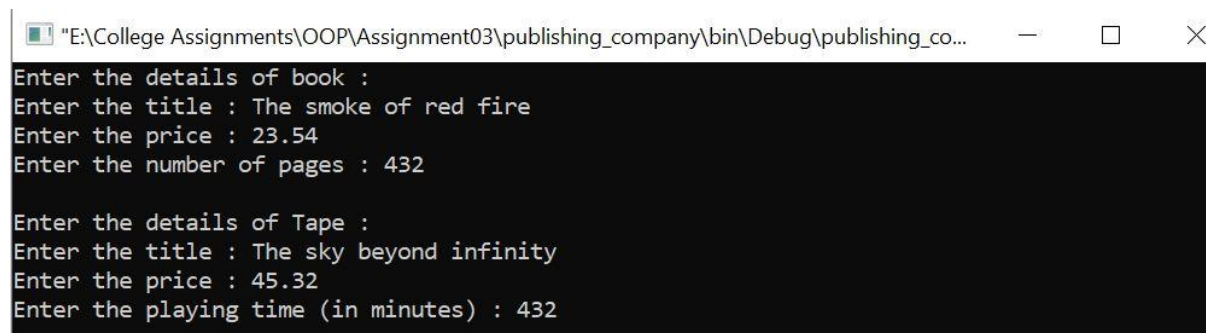
Write a program that instantiates the book and tape class, allows user to enter data and displays the data members. If an exception is caught, replace all member values with zero values.

Source Code:

Source code file(.cpp) is provided with this document as attachment.

Input and Output Demo:

Entering Information:



```
"E:\College Assignments\OOP\Assignment03\publishing_company\bin\Debug\publishing_co...
Enter the details of book :
Enter the title : The smoke of red fire
Enter the price : 23.54
Enter the number of pages : 432

Enter the details of Tape :
Enter the title : The sky beyond infinity
Enter the price : 45.32
Enter the playing time (in minutes) : 432
```

Output (Information):

```
The details of the Book are as follows :  
Title : The smoke of red fire  
Price : 23.54  
Number of Pages : 432
```

```
The details of the Tape are as follows :  
Title : The sky beyond infinity  
Price : 45.32  
Total Playing time in minutes : 432
```

Exception Handling (for invalid price of book and playing time of tape):

```
"E:\College Assignments\OOP\Assignment03\publishing_company\bin\Debug\publishing_co...  
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ks  
u  
Enter the details of book :  
Enter the title : The smoke of red fire  
Enter the price : -34  
Enter the number of pages : 452  
Enter the details of Tape :  
Enter the title : The rain of diamonds  
Enter the price : 34.56  
Enter the playing time (in minutes) : -234  
  
The details of the Book are as follows :  
Title : The smoke of red fire  
Price : 0  
Number of Pages : 452  
  
The details of the Tape are as follows :  
Title : The rain of diamonds  
Price : 34.56  
Total Playing time in minutes : 0  
  
Process returned 0 (0x0)   execution time : 46.032 s  
Press any key to continue.
```

Thank You.