

ASSIGNMENT-03

Input Code :-

```
#include <iostream> using
namespace std;
class publication
{
public:
    char title[5];    float price; void
setData(){           cout<<"Enter the
title"<<endl;         cin>>title;
                    cout<<"Enter the price"<<endl;
                    cin>>price;
                    }
    void getData(){
        cout<<"Title of the book is:"<<title<<endl;
        cout<<"Price of the book is:"<<price<<endl;

    }
};
class Book:public publication
{
public:
    int pageno; void setData1(){
        cout<<"Enter the page no"<<endl;
        cin>>pageno ;    try{
            if(pageno==0)
            {
                throw pageno;
            }
        }
        catch(int)
        {
            cout<<"page no. is not equal to zero"<<endl;
```

```

    }
    }
    void getData1(){
        cout<<"No. of pages is"<<pageno<<endl;
    }
};

class Tape:public publication
{
public:
    float time;
    void setData2(){
        cout<<"Enter the time"<<endl;
        cin>>time;
    }
    void getData2(){
        cout<<"Time of the tape is"<<time<<endl;
    }
};

int main() {
    Book book;
    Tape tape;
    int ch;

    do{
        cout<<"\nMenu \n1:Enter book details \n2:display book details
\n3:enter tape details \n4:display tape details \n5:Exit";
        cout<<"\nEnter your
choice"<<endl;        cin>>ch;
        switch(ch)
        {
            case 1:
                book.setData();
                book.setData1();
                break;

```

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        case 2:
            book.getData();
            book.getData1();
            break;

        case 3:
            tape.setData();
            tape.setData2();
            break;

        case 4:
            tape.getData();
            tape.getData2();
            break;

        case 5:
            cout<<"end the program"<<endl;
            break;

        default :
            cout<<"wrong choice"<<endl;
            break;
    }

    }while(ch!=5);
return 0;
}
```

Output :-

Menu

1:Enter book details
2:display book details
3:enter tape details
4:display tape details
5:Exit

Enter your choice

1

Enter the title OOPs

Enter the price

250

Enter the page no

300

Menu

1:Enter book details
2:display book details
3:enter tape details
4:display tape details
5:Exit

Enter your choice

2

Title of the book is:OOPs

Price of the book is:250

No. of pages is300

Menu

1:Enter book details
2:display book details
3:enter tape details
4:display tape details
5:Exit

Enter your choice

3 Enter the

title tape

Enter the price

100

Enter the time

5

Menu

1:Enter book details

2:display book details

3:enter tape details

4:display tape details

5:Exit

Enter your choice

4

Title of the book is:tape

Price of the book is:100

Time of the tape is5

Menu

1:Enter book details

2:display book details

3:enter tape details

4:display tape details

5:Exit

Enter your choice

5 end the

program