

## Assignment No.: 7

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**Batch :** A-1

**Roll No. :** 04

**Aim :** A book shop sells both books and video tapes. Create a class media that stores the title and price of the publication. Create two derived classes, one for storing number of pages in the book and another for storing playing time of tape. A function display () must be defined in all classes to display class contents. Write a program using polymorphism and virtual function.

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### Input Code :

```
#include<iostream>
using namespace std;
class parent
{
    public:
    void virtual accept()=0;
    void virtual display()=0;
};
class child1: public parent
{
    int bid,bprice;
    char bname[20],publication[10],auther[20];
    public:

    void accept()
    {
        cout<<"\nEnter book id: ";
        cin>>bid;
        cout<<"\nEnter book name: ";
        cin>>bname;
        cout<<"\nEnter book publication: ";
        cin>>publication;
        cout<<"\nEnter book Auther: ";
        cin>>auther;
        cout<<"\nEnter book price: ";
        cin>>bprice;
    }
    void display()
    {
        cout<<"\n book id          : "<<bid;
        cout<<"\n book name          : "<<bname;
```

```

        cout<<"\n book publication    : "<<publication;
        cout<<"\n book Auther      : "<<author;
        cout<<"\n book price        : "<<bprice;
    }
};
class child2: public parent
{
    int cprice;
    char title[20];

public:
    void accept()
    {
        cout<<"\nEnter CD Title: ";
        cin>>title;
        cout<<"\nEnter CD price: ";
        cin>>cprice;
    }
    void display()
    {
        cout<<"\n CD Title          : "<<title;
        cout<<"\n CD price          : "<<cprice;
    }
};
int main()
{
    child1 b;
    child2 c;
    b.accept();
    c.accept();
    cout<<"\n=====Information of book and CD=====\\n";
    b.display();
    c.display();
    //getch();
    return(0);
}

```

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## **Output:**

Enter book id: 4322

Enter book name: Bhagavad\_Gita

Enter book publication: Gita\_Press

Enter book Auther: Maharashi\_Vyas

Enter book price: 170

Enter CD Title: Bhagavad\_Gita

Enter CD price: 170

=====Information of book and CD=====

book id : 4322

book name : Bhagavad\_Gita

book publication : Gita\_PressMaharashi\_Vyas

book Auther : Maharashi\_Vyas

book price : 170

CD Title : Bhagavad\_Gita

CD price : 170