

Assignment No. 03

- **TITLE :** Write a program to implement a class for Book details as follows Private: bookid, book_name, author, price Public: get_details(), print_details() Get details of some books from user and print in tabular form. Also find the total prize of all the book.

➤ **CODE:**

```
#include <iostream>
using namespace std;

class Book{
    int book_id;
    string book_name;
    string author;
    float price;
public:
    void get_details(int i, string n, string a, float p){
        book_id=i;
        book_name=n;
        author=a;
        price=p;
    }
    void print_details(){
        cout<<"Book ID"<<"\t"<<"Book
Name"<<"\t"<<"Author"<<"\t"<<"Price"<<"\t"<<endl;
        cout<<book_id<<"\t"<<book_name<<"\t\t"<<author<<"\t"<<price<<endl;
    }
    void calculate(Book obj[], int n){
        float total = 0;
        for(int i = 0;i < n;i++){
            total += obj->price;
        }
        cout<<"Total price of all books = "<<total<<endl;
    }
};

int main(){
    int n, id;
    string name, author;
    float price;
    cout<<"Enter number of books you want to enter : "<<endl;
    cin>>n;
    Book b[n];
    for(int i = 0;i < n;i++){
        cout<<"Enter book id = "<<endl;
        cin>>id;
        cout<<"Enter book name = "<<endl;
        cin>>name;
        cout<<"Enter book author = "<<endl;
        cin>>author;
        cout<<"Enter book price = "<<endl;
        cin>>price;
        b[i].get_details(id,name,author,price);
    }
}
```

```
cout<<"Book Details"<<endl;
for(int i = 0;i < n;i++){
    b[i].print_details();
}
b->calculate(b,n);
return 0;
}
```

➤ **Output :**

Enter number of books you want to enter :

3

Enter book id =

1

Enter book name =

DSA

Enter book author =

RT

Enter book price =

329

Enter book id =

2

Enter book name =

OOP

Enter book author =

EB

Enter book price =

339

Enter book id =

3

Enter book name =

DBMS

Enter book author =

ETC

Enter book price =

267

Book Details

Book ID	Book Name	Author	Price
1	DSA	RT	329
2	OOP	EB	339
3	DBMS	ETC	267

Total price of all books = 935

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- **Conclusion –** In this assignment, we've implemented program on implementation of book details class in C++.