/\* Wap in c++ to create a **binary file** and write objects of **class BOOK** to it and display them on screen after reading from the file. \*/

#include<fstream.h>

#include<conio.h>

int p;

class book {

int book\_no;

char book\_title[80];

float price;

float total\_cost(int n)

{

float p;

p=n\*price;

return p;

}

public :

void input()

{

cout<<"\n\nEnter Book no. : "; cin>>book\_no;

cout<<"\n\nEnter book title : ";

cin.get();

cin.getline(book\_title,80);

cout<<"\n\nEnter book price : "; cin>>price;

}

void purchase()

{

cout<<"\n\nEnter number of copies to be purchased : "; cin>>p;

cout<<"\n\nTotal cost (in Rs ) = "<<total\_cost(p)<<"\n\n\n";

}

void display()

{

cout<<"\n\nBook title is : "<<book\_title;

cout<<"\n\nBook number is : "<<book\_no;

cout<<"\n\nPrice of book is : "<<price;

cout<<"\n\nTotal cost of "<<p<<" books => "<<total\_cost(p)<<" Rs\n\n\n\n";

}

};

void main()

{clrscr();

book b[3],p[3];

fstream bo;

cout<<"---------------------------------------------------------Enter Details--------------------------------------------------------------\n";

for(int i=0; i<3; i++)

{

b[i].input();

b[i].purchase();

bo.open("xy.txt",ios::out|ios::binary); // Writing to the binary file

bo.write((char \*)&b[i],sizeof(b[i]));

bo.close();

bo.open("xy.txt",ios::in |ios::binary); //Reading from the binary file. See the object is ‘p’ and not ‘b’

bo.read((char \*)&p[i], sizeof(p[i])); // It is not mandatory to have different objects of a class

bo.close();

}

cout<<"\n\n--------------------------------------------------- Book Details -----------------------------------------------------------------“;

for(i=0; i<3; i++)

{

p[i].display();

}

getch();

}

**Output:**

--------------------------------------------------------------------- Enter Details -------------------------------------------------------------------

Enter Book no. : 1

Enter book title : H.C verma

Enter book price : 200

Enter number of copies to be purchased : 5

Total cost (in Rs ) = 1000

Enter Book no. : 2

Enter book title: Sumita arora

Enter book price: 250

Enter number of copies to be purchased: 5

Total cost (in Rs) = 1250

Enter Book no. : 3

Enter book title : R.D sharma

Enter book price : 250

Enter number of copies to be purchased : 2

Total cost (in Rs ) = 500

------------------------------------------------------------------ Book Details -----------------------------------------------------------------

Book title is : H.C verma

Book number is : 1

Price of book is : 200

Total cost of 2 books => 400 Rs

Book title is : Sumita arora

Book number is : 2

Price of book is : 250

Total cost of 2 books => 500 Rs

Book title is : R.D sharma

Book number is : 3

Price of book is : 250

Total cost of 2 books => 500 Rs