

C:\turboc\Untitled-1.cpp

```
1  #include <iostream>
2  #include <string>
3
4  using namespace std;
5
6  // Create Structure of Library
7  struct library {
8      string book_name;
9      string author;
10     int pages;
11     float price;
12 };
13
14 // Driver Code
15 int main()
16 {
17     // Create an array of structs
18     library lib[100];
19
20     string ar_nm, bk_nm;
21
22     // Keep the track of the number of
23     // of books available in the library
24     int i, input, count;
25
26     i = input = count = 0;
27
28     // Iterate the loop
29     while (input != 5) {
30
31         cout << "\n\n*****#####\n"
32              << "WELCOME TO E-LIBRARY "
33              << "#####\n\n";
34         cout << "\n\n1. Add book information\n2. Display book information\n";
35         cout << "3. List all books of given author\n";
36         cout << "4. List the count of books in the library\n";
37         cout << "5. Exit\n";
38
39         // Enter the book details
40         cout << "\n\nEnter one of the above: ";
41         cin >> input;
42
43         // Process the input
44         switch (input) {
45
46             // Add book
47             case 1:
48
49                 cout << "Enter book name = ";
50                 cin >> lib[i].book_name;
51
52                 cout << "Enter author name = ";
53                 cin >> lib[i].author;
54
```

```
55     cout << "Enter pages = ";
56     cin >> lib[i].pages;
57
58     cout << "Enter price = ";
59     cin >> lib[i].price;
60     count++;
61
62     break;
63
64 // Print book information
65 case 2:
66     cout << "you have entered the following information\n";
67     for (i = 0; i < count; i++) {
68
69         cout << "book name = " << lib[i].book_name;
70         cout << "\t author name = " << lib[i].author;
71         cout << "\t pages = " << lib[i].pages;
72         cout << "\t price = " << lib[i].price << endl;
73     }
74     break;
75
76 // Take the author name as input
77 case 3:
78     cout << "Enter author name : ";
79     cin >> ar_nm;
80     for (i = 0; i < count; i++) {
81
82         if (ar_nm == lib[i].author)
83             cout << lib[i].book_name << " " << lib[i].author << " " << lib[i].pages << "
" << lib[i].price << endl;
84     }
85     break;
86
87 // Print total count
88 case 4:
89     cout << "\n No of books in library : " << count << endl;
90     break;
91 case 5:
92     exit(0);
93 }
94 }
95 return 0;
96 }
```