E:\lib++.cpp

```cpp
#include <iostream>
#include <string>

using namespace std;

// Create Structure of Library
struct library {
    string book_name;
    string author;
    int pages;
    float price;
};

// Driver Code
int main()
{
    // Create an array of structs
    library lib[100];

    string ar_nm, bk_nm;

    // Keep the track of the number of
    // of books available in the library
    int i, input, count;

    i = input = count = 0;

    // Iterate the loop
    while (input != 5) {

        cout << "\n\n********######"
            << "WELCOME TO E-LIBRARY "
            << "#####********\n";
        cout << "\n\n1. Add book information\n2. Display book information\n";
        cout << "3. List all books of given author\n";
        cout << "4. List the count of books in the library\n";
        cout << "5. Exit\n";

        // Enter the book details
        cout << "\n\nEnter one of the above: ";
        cin >> input;

        // Process the input
        switch (input) {

        // Add book
        case 1:

```

```
            cout << "Enter book name = ";
            cin >> lib[i].book_name;

            cout << "Enter author name = ";
            cin >> lib[i].author;

            cout << "Enter pages = ";
            cin >> lib[i].pages;

            cout << "Enter price = ";
            cin >> lib[i].price;
            count++;

            break;

        // Print book information
        case 2:
            cout << "you have entered the following information\n";
            for (i = 0; i < count; i++) {

                cout << "book name = " << lib[i].book_name;
                cout << "\t author name = " << lib[i].author;
                cout << "\t pages = " << lib[i].pages;
                cout << "\t price = " << lib[i].price << endl;
            }
            break;

        // Take the author name as input
        case 3:
            cout << "Enter author name : ";
            cin >> ar_nm;
            for (i = 0; i < count; i++) {

                if (ar_nm == lib[i].author)
                    cout << lib[i].book_name << " " << lib[i].author << " " << lib[i].pages << "
" << lib[i].price << endl;
            }
            break;

        // Print total count
        case 4:
            cout << "\n No of books in library : " << count << endl;
            break;
        case 5:
            exit(0);
        }
    }
    return 0;
}

```

```
// The code is contributed by Nidhi goel.

```