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// C++ code addition

#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;

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

```
break;
```

```
// Print book information
```

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case 2:
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cout << "you have entered the following information\n";
```

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for (i = 0; i < count; i++) {
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    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
```