```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

struct library {
        char book_name[20];
        char author[20];
        int pages;
        float price;
};


int main()
{

        struct library lib[100];

        char ar_nm[30], bk_nm[30];


        int i, input, count;

        i = input = count = 0;


        while (input != 5) {

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


                printf("\n\nEnter one of "
                        "the above: ");
                scanf("%d", &input);
```

```c
switch (input) {

case 1:

        printf("Enter book name = ");
        scanf("%s", lib[i].book_name);

        printf("Enter author name = ");
        scanf("%s", lib[i].author);

        printf("Enter pages = ");
        scanf("%d", &lib[i].pages);

        printf("Enter price = ");
        scanf("%f", &lib[i].price);
        count++;

        break;

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

                printf("book name = %s",
                        lib[i].book_name);

                printf("\t author name = %s",
                        lib[i].author);

                printf("\t pages = %d",
                        lib[i].pages);

                printf("\t price = %f",
                        lib[i].price);
        }
        break;
```

```c
        case 3:
                printf("Enter author name : ");
                scanf("%s", ar_nm);
                for (i = 0; i < count; i++) {

                        if (strcmp(ar_nm,
                                        lib[i].author)
                                == 0)
                                printf("%s %s %d %f",
                                        lib[i].book_name,
                                        lib[i].author,
                                        lib[i].pages,
                                        lib[i].price);
                }
                break;


        case 4:
                printf("\n No of books in "
                        "brary : %d",
                        count);
                break;
        case 5:
                exit(0);
        }
    }
    return 0;
}
```

```
*********######WELCOME TO E-LIBRARY #####*********


1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above:
```

```
*********######WELCOME TO E-LIBRARY #####*********


1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above: 1
Enter book name = Abcz
Enter author name = Bid
Enter pages = 500
Enter price = 120


*********######WELCOME TO E-LIBRARY #####*********


1. Add book information
2. Display book information
3. List all books of given author
4. List the count of books in the library
5. Exit

Enter one of the above:
```