**#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;**

**// Iterate the loop**

**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);**

**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;**

**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;**

**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;**

**}**