**5. Let us work on the menu of a library. Create a structure containing book information like accession number, name of author, book title and flag to know whether book is issued or not. Create a menu in which the following can be done. 1 - Display book information 2 - Add a new book 3 - Display all the books in the library of a particular author 4 - Display the number of books of a particular title 5 - Display the total number of books in the library 6 - Issue a book (If we issue a book, then its number gets decreased by 1 and if we add a book, its number gets increased by 1) \*\*\***

**#include <stdio.h>**

**#include<conio.h>**

**#include <stdlib.h>**

**#include <string.h>**

**void display\_books();**

**void add\_book();**

**void book\_count\_of\_particular\_author();**

**void book\_count\_of\_particular\_title();**

**void total\_books();**

**struct library{**

**int book\_id;**

**char book\_title[50];**

**char author[50];**

**int flag;**

**}b[100];**

**int count;**

**int main()**

**{**

**int ch;**

**while(1)**

**{**

**printf("\n 1:enter the book info\n");**

**printf("\n 2:display book info\n");**

**printf("\n 3:total number of books of partcular author\n");**

**printf("\n 4:total number of books of partcular title\n");**

**printf("\n 5:count the total number of books\n");**

**printf("\n 6:check if the book is issued or not.\n");**

**printf("\n 7:exit\n");**

**printf("\n enter the choice \n");**

**scanf("%d",&ch);**

**switch(ch)**

**{**

**case 1:**

**add\_book();**

**getch();**

**break;**

**case 2:**

**display\_books();**

**getch();**

**break;**

**case 3:**

**book\_count\_of\_particular\_author();**

**getch();**

**break;**

**case 4:**

**book\_count\_of\_particular\_title();**

**getch();**

**break;**

**case 5:**

**total\_books();**

**getch();**

**break;**

**case 6:**

**total\_books();**

**getch();**

**break;**

**case 7:**

**exit(0);**

**}**

**}**

**return 0;**

**}**

**void add\_book()**

**{**

**printf("\n enter the detail of book \n");**

**printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**

**printf("\n enter accession number of book =");**

**scanf("%d",&b[count].book\_id);**

**fflush(stdin);**

**printf("\n enter the book title= ");**

**scanf("%s",&b[count].book\_title);**

**fflush(stdin);**

**printf("\n enter the name of author= ");**

**scanf("%s",&b[count].author);**

**printf("press 0 if book is issued and 1 if available\n");**

**scanf("%d",&b[count].flag);**

**fflush(stdin);**

**count++;**

**}**

**void display\_books()**

**{**

**int i;**

**printf("\n detail of %d books in library",count);**

**printf("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**

**for(i=0;i<count;i++)**

**{**

**printf("\n %d\n%s\n%s",b[i].book\_id,b[i].book\_title,b[i].author);**

**}**

**if(b[i].flag==0)**

**printf(" Book is available\n");**

**else**

**printf(" Book is not available\n");**

**}**

**void book\_count\_of\_particular\_author()**

**{**

**int i,cnt=0;**

**char name[20];**

**printf("\n enter the name of author=");**

**gets(name);**

**for(i=0;i<count;i++)**

**{**

**if(strcmp(name,b[i].author)==0)**

**{**

**cnt++;**

**printf("\n %d\n%s\n%s",b[i].book\_id,b[i].book\_title,b[i].author);**

**}**

**}**

**if(cnt==0)**

**printf("\n no such book \n");**

**}**

**void book\_count\_of\_particular\_title()**

**{**

**int i,cnt=0;**

**char name[20];**

**printf("\n enter the title of the book=");**

**gets(name);**

**for(i=0;i<count;i++)**

**{**

**if(strcmp(name,b[i].book\_title)==0)**

**{**

**cnt++;**

**printf("\n %d\n%s\n%s",b[i].book\_id,b[i].book\_title,b[i].author);**

**}**

**}**

**if(cnt==0)**

**printf("\n no such book \n");**

**}**

**void total\_books(){**

**printf("\n total no of book in library =%d",count);**

**}**