```c
#include<stdio.h>

#include<stdlib.h>

#include<string.h>

struct book

{

    int  b_no;

    char b_name[40];

    char b_author[40];

    int  no_pages;

};

int main()

{

    struct book b[20];

    int    ch,n,i,count = 0;

    char   temp[40];

    do

    {

        printf("PRESS 1.TO ADD BOOK DETAILS.");

        printf("\nPRESS 2.TO DISPLAY BOOK DETAILS.");

        printf("\nPRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.");

        printf("\nPRESS 4.TO COUNT NUMBER OF BOOKS.");

        printf("\nPRESS 5.TO EXIT.");

        printf("Enter Your Choice: ");
```

```c
scanf("%d",&ch);

switch(ch)

{

    case 1:

        printf("\nHow Many Records You Want to Add: ");

        scanf("%d",&n);

        printf("Add Details of %d Book\n",n);

        for(i = 0 ; i < n ; i++)

        {

            printf("Enter Book No.    : ");

            scanf("%d",&b[i].b_no);

            printf("Book Name        : ");

            scanf("%s",b[i].b_name);

            printf("Enter Author Name  : ");

            scanf("%s",b[i].b_author);

            printf("Enter No. of Pages : ");

            scanf("%d",&b[i].no_pages);

        }

        break;

    case 2:

        printf("\n\t\tDetails of All Book");

        printf("Book No.   Book Name\t  Author Name\tNo. of Pages");

        for( i = 0 ; i < n ; i++)

        {

            printf("\n %d\t  %s\t  %s\t  %
```

```c
d",b[i].b_no,b[i].b_name,b[i].b_author,b[i].no_pages);

            }

            printf("\n\n");

            break;

        case 3:

            printf("\nEnter Author Name: ");

            scanf("%s",temp);

            for( i = 0 ; i < n ; i++)

            {

                if(strcmp(b[i].b_author,temp) == 0)

                {

                    printf("\n%s\n",b[i].b_name);

                }

            }

            break;

        case 4 :

            for( i = 0 ; i < n ; i++)

            {

                count++;

            }

            printf("\nTotal Number of Books in Library : %d\n",count);

            break;

        case 5 :

            exit(0);
```

```
        }

    }while(ch != 5);

    return 0;

}
```

input

PRESS 1.TO ADD BOOK DETAILS.

PRESS 2.TO DISPLAY BOOK DETAILS.

PRESS 3.TO DISPLAY BOOK OF GIVEN AUTHOR.

PRESS 4.TO COUNT NUMBER OF BOOKS.

PRESS 5.TO EXIT.Enter Your Choice