

First of all we are using the libraries of three which gives us the permission to make the project: <stdio.h> ,<stdlib.h> ,<string.h>.

after that we define 2 structures

1. A structure for the writers information.,
This one has two char arrays one for the name and one for the surname and one integer variable for the number of books.
2. A structure for the books and the writer's informations again.
This one has two char arrays as well. One for the book name and the other for the writer's name and we have an integer variable as well for the first publication year.

after the structures we have the function parts.

The first function we print the list of the book list with use of two structures we have already set. Given the information with the book_info and *booklist we are printing the books one by one before each printf's we are adding the Books variable and with the each Books variable we can print the given book with the line below.

```
book_list->book_name,book_list->writer_name,book_list->first_publication_year
```

The second function which we are using is the searching function this particular function that gives the book name is using 2 integers one for selection for the switch case menu and one for the publication part for the 4th case and we are using a char array input[] for the menus as well.

first case looks and sees if the given book name is equal to the switch case if not it looks for the other scenario with the use of strcmp command.

the second switch case is looking with the writer's name with use of strcmp command as well.

third case we are using writer's surname same way with the 3th case.

Fourth and the last case we are looking with the publication date.

all of these cases are done with the help of the structures that we have already declared and made before these functions for example we are using books_list and writer_info for the strcmp function.

third function is a program to find the books that the specific writer wrote the count of it with the use of the this line.

```
writer_list -> writer_name
```

create new book creates a new book for the list and add details to the given book for example publication year.

add new book function adds just the name to the list not the details.

remove book function removes the books from the list.

in the main function we are using a menu so for the menu we have to use a variable an integer in particular that is menu_select and we declare char array WriterInf[] for the Writer information book_info structures of book info writer_info and writer info. The goto function allows us to go to in front of the infinite loop while(1).