

# **ALGORITHM:**

- Include header file i.e, <stdio.h>, <stdlib.h>, <string.h> .
- Declare a **structure** named **library** for holding composite data of **string**, **integer** and **float** type .
- Then define **struct library arr[limit]** for accessing data members.
- Start a **while loop** with condition (**x=1**).
- Make switch case consisting of **7 cases**
- Case 1: to input data for book
- Case 2: for displaying the book data
- Case 3: for displaying the books of the author given from the console.
- Case 4: to list the title of the specified book.
- Case 5: to know count of books in library .
- Case 6: to list the book in accession number
- Case 7: to exit from the process .
- For case 1 for taking input of the string part use **fflush(stdin)** and **fgets()** And for entering the price and flag use **scanf()** with appropriate **access specifier**.
- Further in case 1 use **arr[j].acc\_no=j** for storing there accession no of the book. And then increment j by 1 (**J++**).
- In the case 2 of the switch case use **puts()** to print the string part and **printf() function** for printing price of book.
- Further in case 2, **if(arr[l].f==0) then print book is issued else print not issued.**
- In case 3 take input from the console for the author name by **fflush(stdin) & fgets()** and check that **if(strcmp(arr[l].author,aut)==0)** then print **arr[l].nam** else print **"no book available"**.
- In case 4 ask for the accession number from the console and then print the book added to the library to that particular accession number by **if(arr[l].acc\_no==accession )** then print **arr[i].nam** .
- In case 5 simply print value of **"j"** for knowing the count of books in the library.
- In case 6 start a loop from **i=0** to **l<j** and **print arr[i].nam** .
- In case 7 make value of **x=2** for terminating the while loop.

