

procedure(working of code):-

1. A composite data type i.e, structure namely library is declared consisting of integer ,float and two character array each of size 1000 for storing the name of book and name of author
2. Array of structure data type of length 1000 is declared for storing details of book of library.
3. Now the compiler moves inside while loop as the condition is true(x=1).
4. Value of k is first initialised to 0 before each iteration and then it asks every time for giving the choice .
5. Let us say the user has entered 1 as choice now the cursor goes inside the switch case and goes to choice number 1 there it first takes the name of book from console and stores it inside arr[j].name then it asks for the name of the author of the book and stores it in arr[j].author then it takes the value of book from user and also asks for the status of book i.e issued or not. Then it assigns the accession no to the book i.e the value of which was initially initialised to "0" and then j++ for counting number of books in library
6. Still the compiler is inside the while loop thus it again asks for entering choice from the user and it goes on until the user gives choice as 7 .

7. Now let us say console has given choice as 5 then the cursor again goes inside the switch case and directs itself to case no 5 and prints the number of book present in the library i.e, the value of “j” using the printf() function.
8. If choice no 7 is given then then the value of x is assigned to 0 thus condition of while loop(x=1) becomes false and it comes out of loop.
9. Thus the program of working of library is terminated.