**Documentation of LMS Project**

As soon as we run the project , it will ask the choice where the user will enter their choice

If the users enter 1 then it will display the whole catalogue,

If the users enter 2 then able to search the book using book name or author name,

If the users enter 3 then it will ask for issuing a book

If the users enter 4 then it will ask to return a book

If the user enter 5 then it will ask that how many book want to donate

**Module 1 : Reading the whole catalogue**

In this module we are reading the whole record from the lms.txt file and the function for this module is read\_all\_data(). In this function we are opening lms.txt file in read mode , then reading the file line by line and breaking in a new line when the line ends and printing the line.

**Module 2 :Searching a Book**

**In this module we are searching a book by using the book name or author name and the function for searching the book is search\_book() which accepting one parameter that is either book name or book author, then the book name or book author which is entered by user checks in the lms.txt file . If the book is found then it will display a message that is ‘Book Available’ otherwise a message will display ‘Sorry Book Not Exist’**

**Module3 : Issue a Book**

In this module we are issuing a book based on some certain rule

1 If the students want a book and that book is not available then it will dispaly a message that ‘Sorry Book Not Exist’

2 If the student wants a book and that book is available then itchecks the condition that book is In or Out. If the book is Out then it will display a message ‘Book Already Issued’ otherwise display a message ‘The book name is issued to you please return the book in within a week’ and the status of the book will be change from In to Out in lms.txt file .

For this functionality I am using the function Issue\_a\_book() which accepts the name of the book and that book name searches in the file lms.txt if found then check In and Out o the book and calculating the date 7 days in future from the current date and the date displays when the book will be issue .

**Module 4 : Returning a Book**

If a student want to return a book then it checks book is available or not , if the book is not available then it displays a message as ‘You are trying to return a wrong book’ If the book is available then it checks the the book is in or out , if the book is In then it will display a message ‘You are trying to return a book which is already Checked In’ otherwise it will display a message ‘thanks for returning the book’ and the mode will be change from Out to In in lms.txt file.

For this functionality I am using the function return\_a\_book() which accepts the name of a book and then searching the book in lms.txt file.

**Module 5: Donate a Book**

In this module the user can donate the book, when this module runs then the program will ask to user that how many book you want to donate then the user will have to enter the name of the book and author of the book and by default we are appending the book in In mode to the lms.txt file ,then it will display a message ‘Thanks for Donating a Book’ and the book will be added in lms.txt file .

For this functionality I am using the function donate\_a\_book().

**Module 6: Exit from the System**

If the user will enter except 1,2,3,4,5 then a message will be display that is ‘Invalid Choice ’ and the program will be exit.