**TEST PLAN AND OUTPUT**

**Test Plan :**

The resources here required are gcc compiler or any ide of C to develop and build the code.

1. To check if the program menu displays all options correctly
2. To check if the admin login authenticates the user to  enter valid name and password  and program menu displays all the options
3. To check if the user  enter invalid information
4. To check if the user can add data
5. To check if the user can delete a book from the list
6. To check if the user can edit the book details
7. To check if the user can search a particular book in the system
8. To check if the user can issue a book
9. To check if the user can view the list of books
10. To check if the user can close the application.

**Test Cases :**

Testing involves the design of test cases that validate that the internal program logic is functioning properly.

1. Test case 1 : To check if the admin login authenticates the user to  enter valid name and password  and program menu displays all the options

Expected output : if the user entered correct username and password it will display login successfully else it displays invalid credentials.

1. Test case 2 : Enter valid username and password then it will go to the Main Menu Bar displaying.

1.Add Book, 2. Delete Book, 3. Issue Book, 4. Retrurn Book, 5. Add Member, 6. Delete Member,

Expected output : Enter Particular number for which menu to go for example for add book press number 1 and then press enter key.

1. Test case 3 : For add book it displays the 1. Book no, 2. Book Name, 3. Author Name, enter the valid number , name , and author.

Expected outpt : It will displays the book added successfully.

1. Test case 4 : If the user wants to delete the book press number 2 in the main menu and press enter key it shows the enter book number.

Expected output : if user enters the valid book number the output displays the book is deleted successfully else no such book exits

1. Test case 5 : If the admin wants to add member press number 5 and enter it displays the enter member no , member name, member address, member mobile no.

Expected output : The outout displays the member added successfully.

1. Test case 6 : If the user wants to return the book enter number 4 and press enter key out displays the enter the book no user has to enter valid book no.

Expected output: output displays the book returned successfully.

**Expected outputs :**

The expected outcomes of development and connect multiple databases is that it provides the online Library Management System in which user can get registration and search the different kind of books on base of different parameter such as Book ID, Author Name etc as long as confirm the booking of book in advance. By connecting the more than two databases with each other, system will execute the efficient, reliable and reduce the database terrific as well as database performance will be increased.