

Library Management System In Java

A **Library Management System In Java** is a software application implement in Java platform. It is useful for libraries in any schools or similar educational institution to manage and maintain book details. Using This **Library Management System In Java**, users need not search the entire library to find a book; the list of books available is displayed by the application.

The main feature of This **Library Management System Using Java** is that all the books available in the library can be borrow by the students. and also the borrowed books by the students can return in the library. Additionally, the application effectively maintains the details of users/students to whom books have been issued; it also records the issued date and return date.

Features

- **Manage books**
- **statistics**
- **Manage students**
- **Issue books**
- **Return books**
- **User login**
- **User registration**

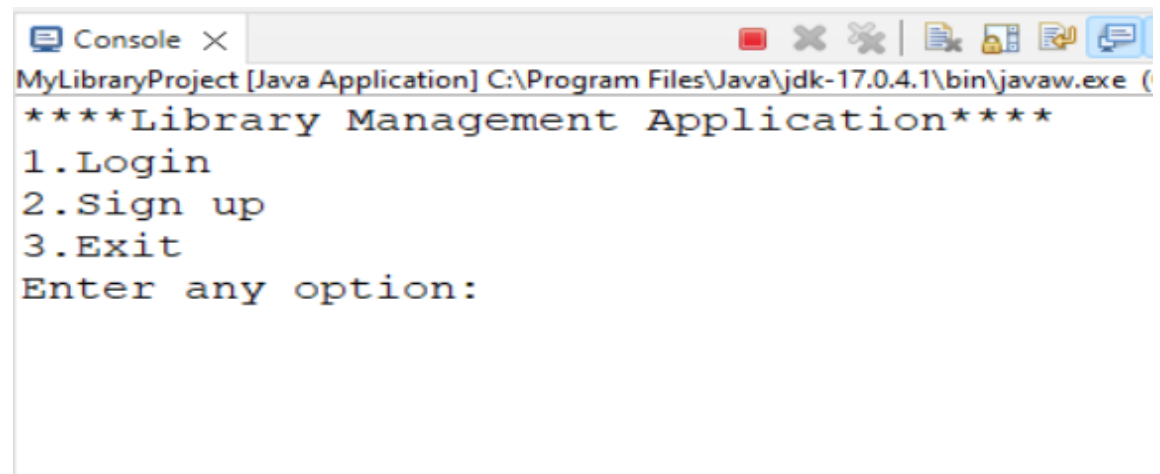
List Module

- **User Login**
- **New book**
- **Statistics**
- **New student**
- **Issue book**
- **Return book**

- Sign Up Option:

You can develop this option like take user name and password from user and while logging in check whether entered user name and password is correct or not with this sign-up details.

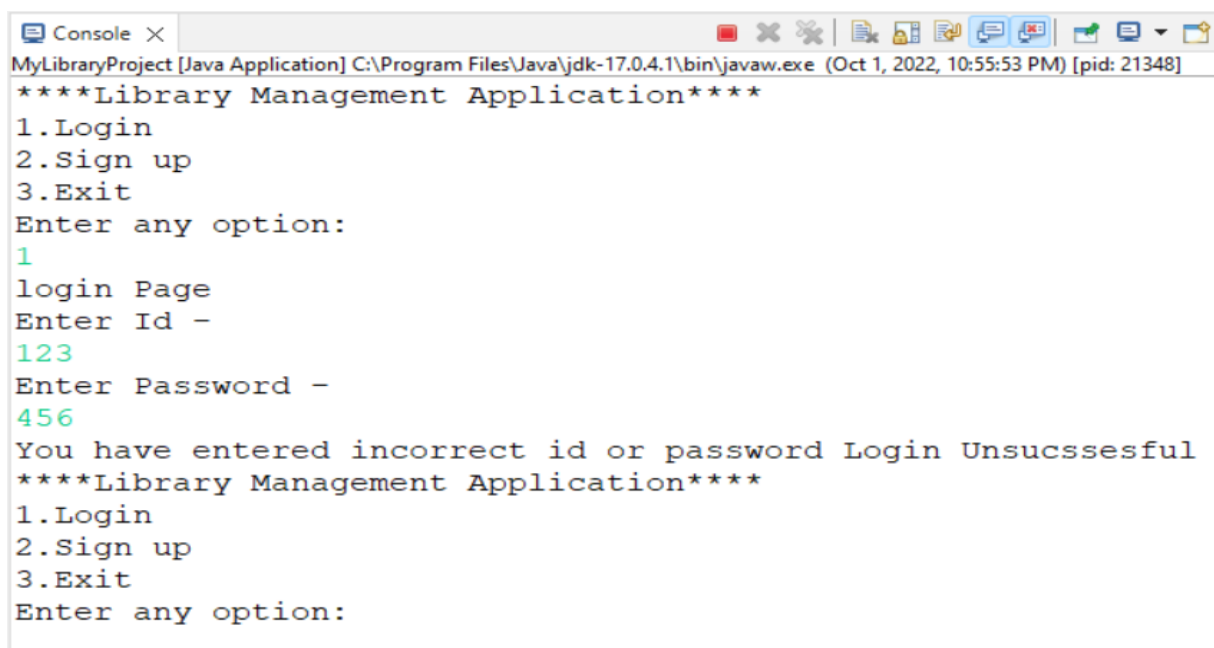
- **User Login**



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Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
```

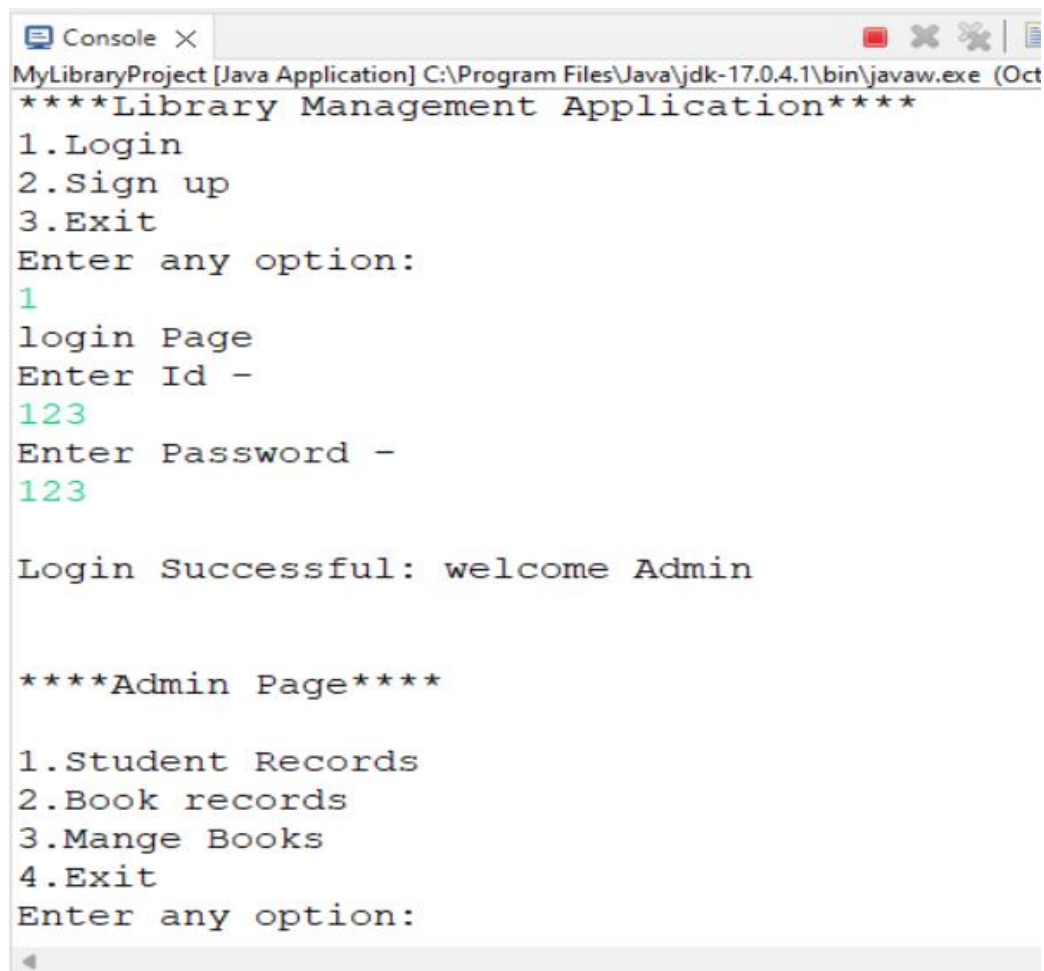
Login Option:

If User Name and Password is incorrect:



```
Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 1, 2022, 10:55:53 PM) [pid: 21348]
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
1
login Page
Enter Id -
123
Enter Password -
456
You have entered incorrect id or password Login Unsucssesful
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
```

If User Name and Password is correct show Admin Page for Student Record, Book Record, Manage Book, Exit:



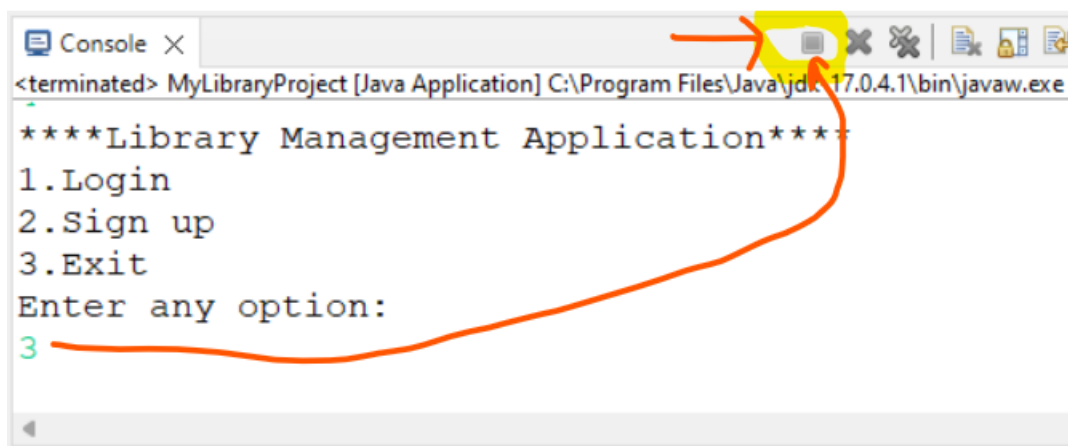
```
Console ×
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
1
login Page
Enter Id -
123
Enter Password -
123

Login Successful: welcome Admin

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

Exit Option: Once user click Exit option then program should stop execution.



```
Console ×
<terminated> MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
3
```

****Admin Page****

1.Student Records

```
Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.
****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:

1

**Student Page**

1.Add Students
2.Display all Student
3.Exit
Enter any option:
```

1.Add Students

```
Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\
**Student Page**

1.Add Students
2.Display all Student
3.Exit
Enter any option:

1
Add Student Name And Roll No.
Enter Roll No -1
Enter Name -Umesh
Enter Roll No -2
Enter Name -Ramesh
Enter Roll No -3
Enter Name -Gajanan
Enter Roll No -4
Enter Name -Chandan
Enter Roll No -5
Enter Name -Dhanaji

Data saved sucseful

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

2.Display all Student

```
Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin
**Student Page**

1.Add Students
2.Display all Student
3.Exit
Enter any option:
2
List of Students and Roll No.
1> 1 - Umesh
2> 2 - Ramesh
3> 3 - Gajanan
4> 4 - Chandan
5> 5 - Dhanaji

****Admin Page****

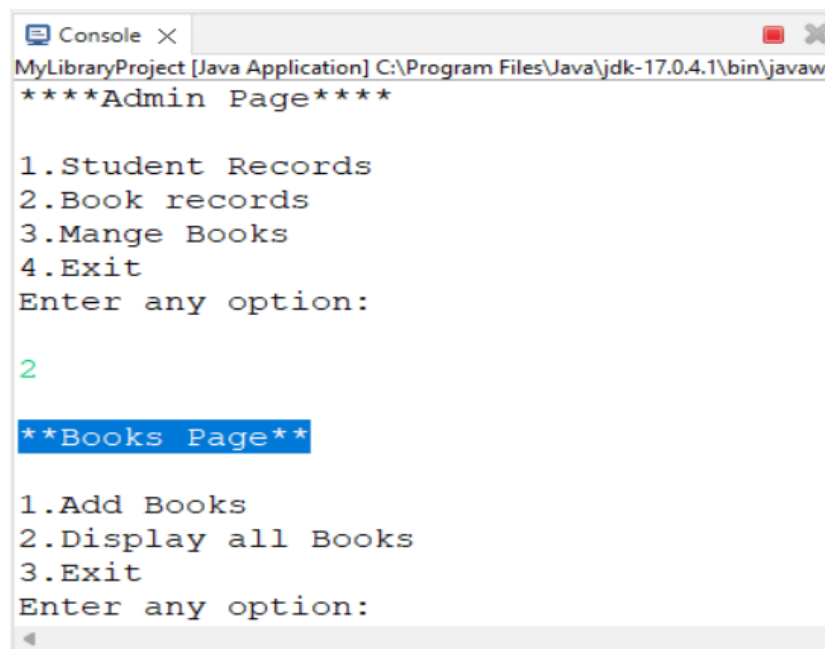
1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

3.Exit: User select exit option then it should land on Admin Page.

```
Console X
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (C
**Student Page**

1.Add Students
2.Display all Student
3.Exit
Enter any option:
3
****Library Management Application****
1.Login
2.Sign up
3.Exit
Enter any option:
```

****Books Page****



```
Console x
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw
****Admin Page****

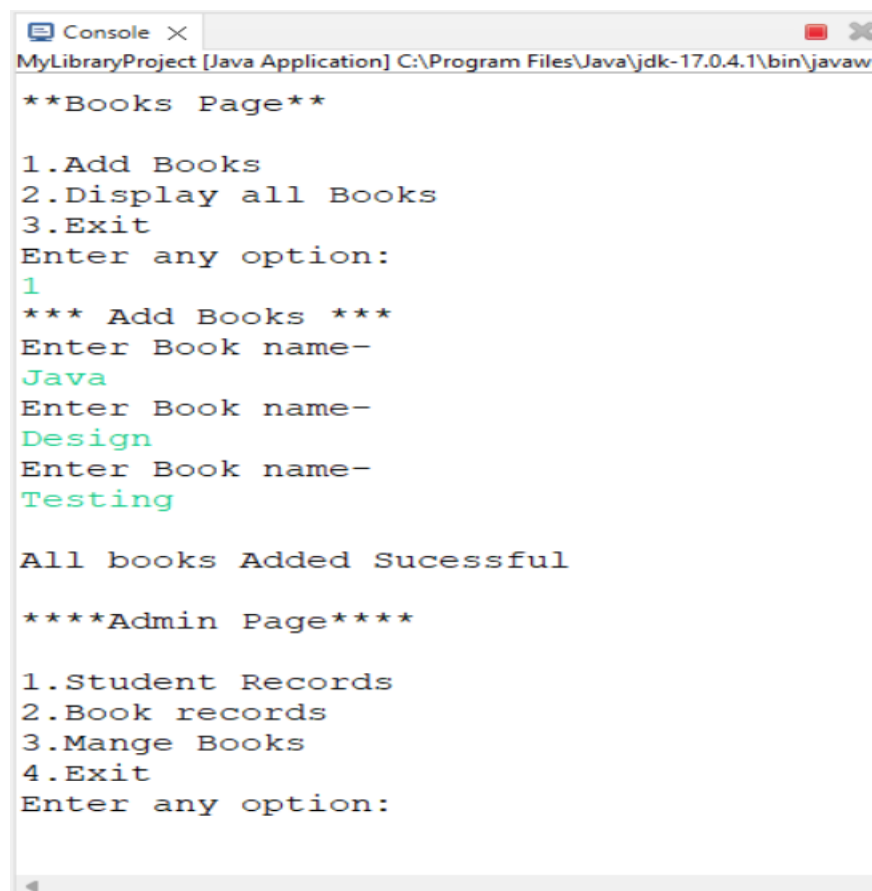
1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:

2

**Books Page**

1.Add Books
2.Display all Books
3.Exit
Enter any option:
```

1.Add Books



```
Console x
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw

**Books Page**

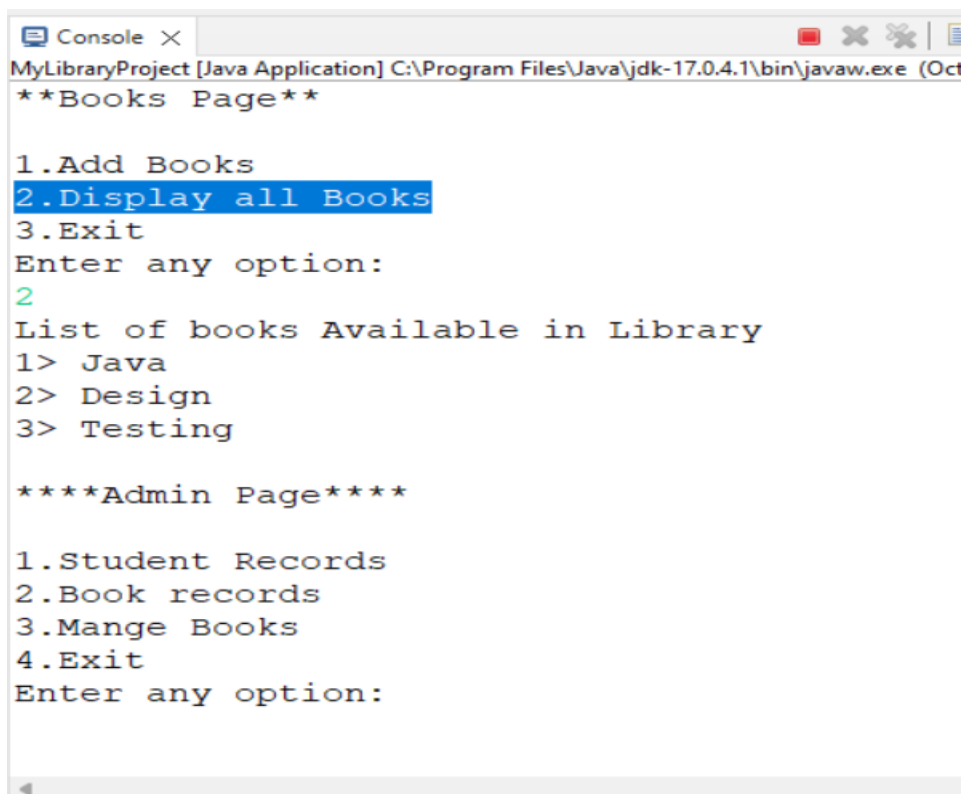
1.Add Books
2.Display all Books
3.Exit
Enter any option:
1
*** Add Books ***
Enter Book name-
Java
Enter Book name-
Design
Enter Book name-
Testing

All books Added Sucessful

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

2.Display all Books



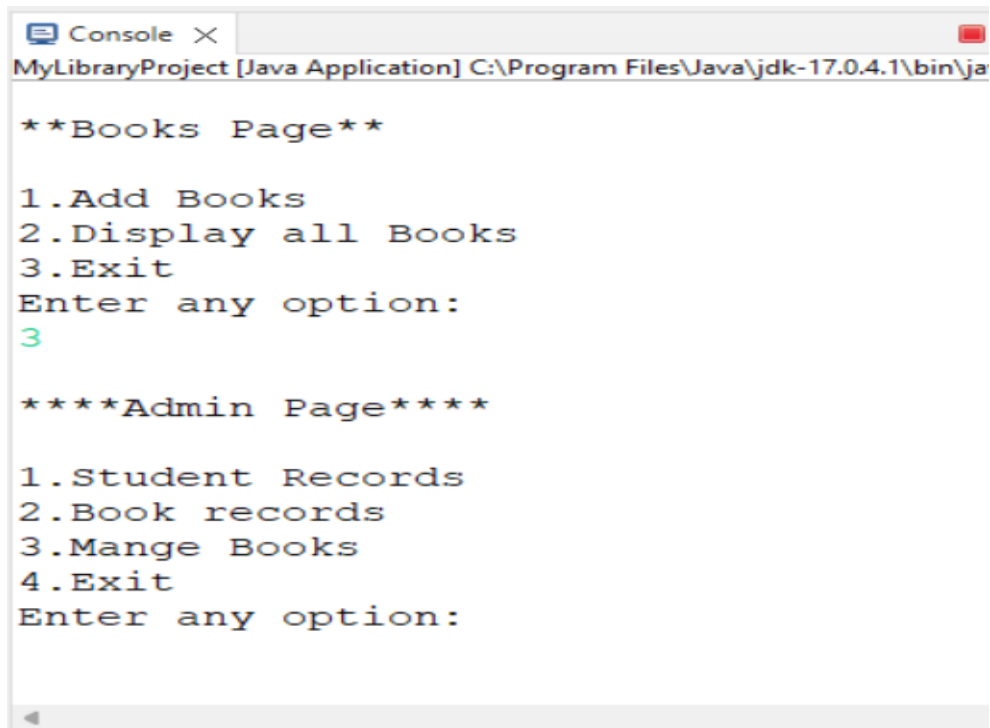
```
Console ×
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct
**Books Page**

1.Add Books
2.Display all Books
3.Exit
Enter any option:
2
List of books Available in Library
1> Java
2> Design
3> Testing

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

3.Exit: User select exit option then it should land on Admin Page.



```
Console ×
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\ja

**Books Page**

1.Add Books
2.Display all Books
3.Exit
Enter any option:
3

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```

****Manage Books Page****

```
Console x
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.

****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:

3
**Manage Books Page**

1.Issue Books
2.Return Books
3.Exit
Enter any option:
```

1.Issue Books

```
Console x
MyLibraryProject [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct

**Manage Books Page**

1.Issue Books
2.Return Books
3.Exit
Enter any option:

1
Issue book to Student
Enter Student roll No.

1
Enter book Name
Java

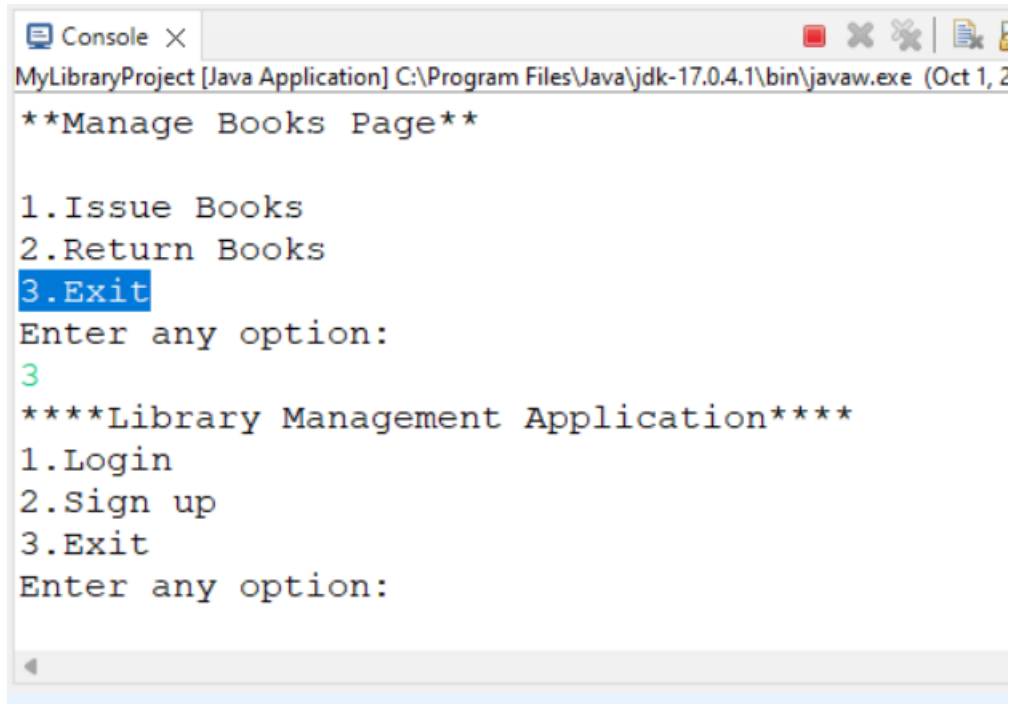
****Admin Page****

1.Student Records
2.Book records
3.Mange Books
4.Exit
Enter any option:
```


2.Return Books

In this option Admin can take book submission which student want to submit.

3.Exit

A screenshot of a Java console window titled 'Console'. The window shows the output of a Java application. The first menu is titled '**Manage Books Page**' and lists three options: '1.Issue Books', '2.Return Books', and '3.Exit'. The option '3.Exit' is highlighted with a blue background. Below the menu, the prompt 'Enter any option:' is displayed, followed by the input '3' in green. The second menu is titled '****Library Management Application****' and lists three options: '1.Login', '2.Sign up', and '3.Exit'. Below this menu, the prompt 'Enter any option:' is displayed. The console window's title bar shows the file path 'C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe' and the date 'Oct 1, 2023'.