



Object-Oriented Programming Final Project on

LIBRARY MANAGEMENT SYSTEM

Section : c1

Group 4

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System Requirements of the project

Software used:

IDE : IntelliJ IDEA Community Edition 2022.3.1

JDK : jdk-19_windows-x64_bin

Coding Language: Java



Explanation of the project:

Library management system is a project which aims in developing a computerized system to maintain all the daily work of a library. The system helps both students and library manager to keep a constant track of all the books available in the library. It allows both the admin and the student to search for the desired book.

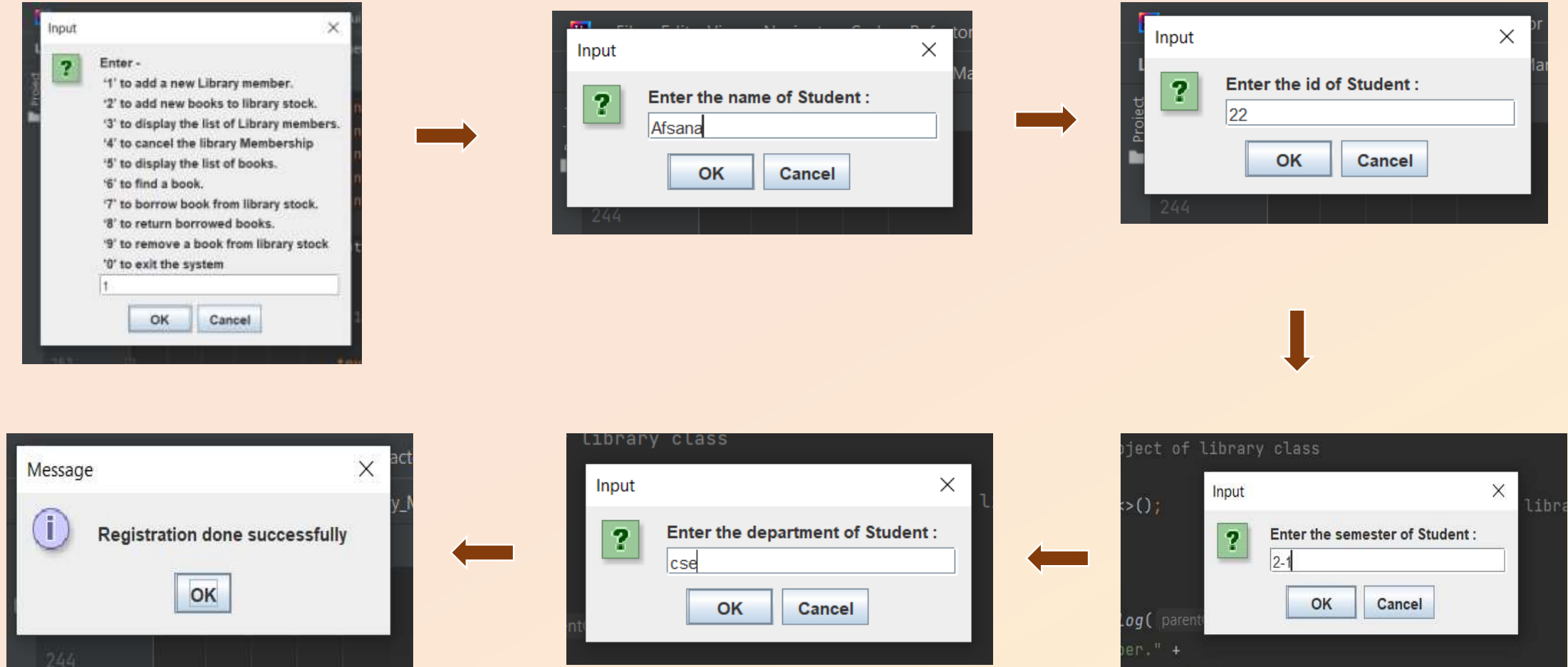
The main feature of this system is that all the books available in the library can be displayed in a list so that students need not roam through the entire library to find a book. Additionally, the application effectively maintains the details of users/students to whom books have been issued; it also records the issued date and return date.



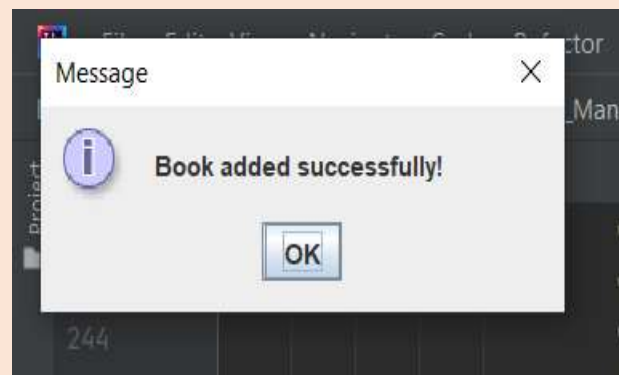
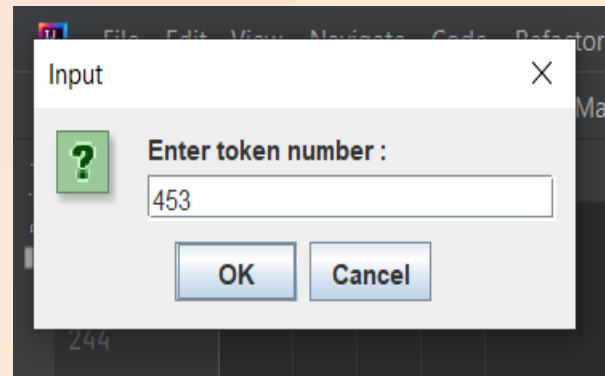
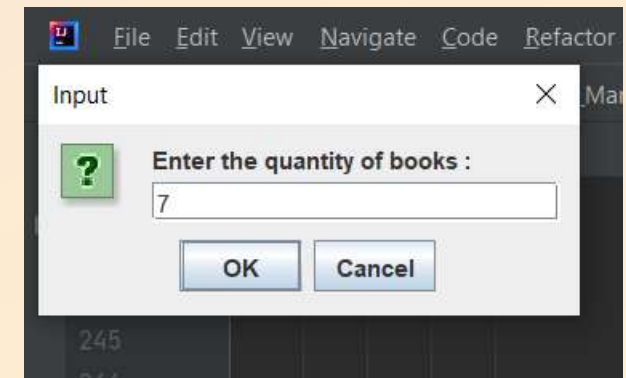
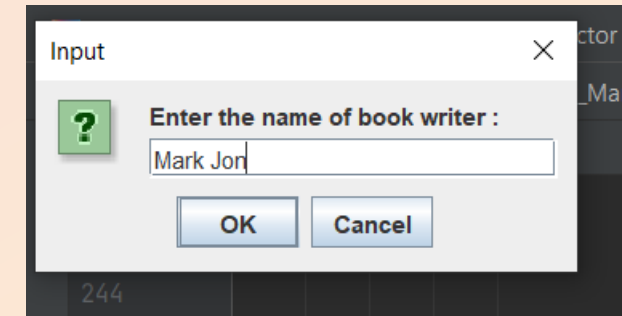
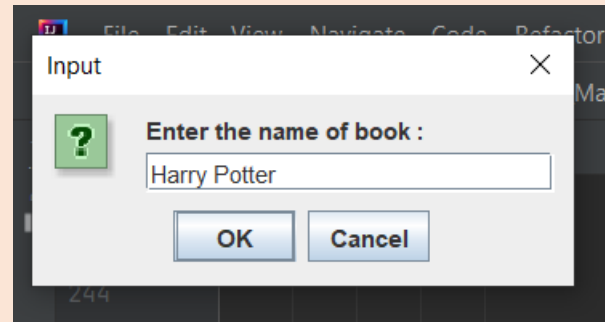
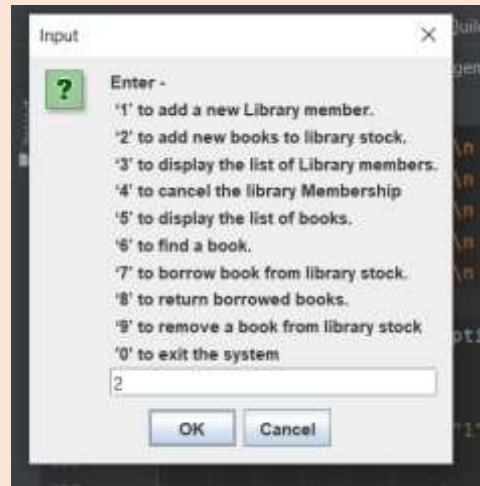
Features :

- Add, modify and delete book details from library stock.
- Search feature for finding book availability in library stock.
- Borrow and return books.
- Add a student in the library membership list.
- Cancel library membership of a student.

Registration for library membership :



Adding books to the library stock :



Displaying book list and library memberlist:

Input

Enter -

- '1' to add a new Library member.
- '2' to add new books to library stock.
- '3' to display the list of Library members.
- '4' to cancel the library Membership
- '5' to display the list of books.
- '6' to find a book.
- '7' to borrow book from library stock.
- '8' to return borrowed books.
- '9' to remove a book from library stock
- '0' to exit the system

OK Cancel



```
Run: Library_Management_System
"C:\Program Files\Java\jdk-19\bin\java.exe" "-ja
List of books available in the library:
Title :Harry Potter
Author :Mark Jon
Quantity :7
Token number :345
```

Input

Enter -

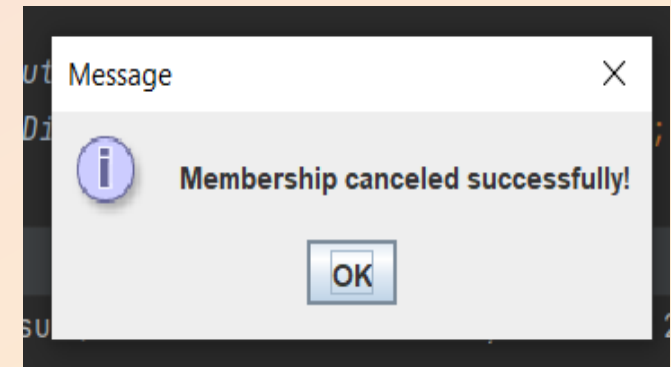
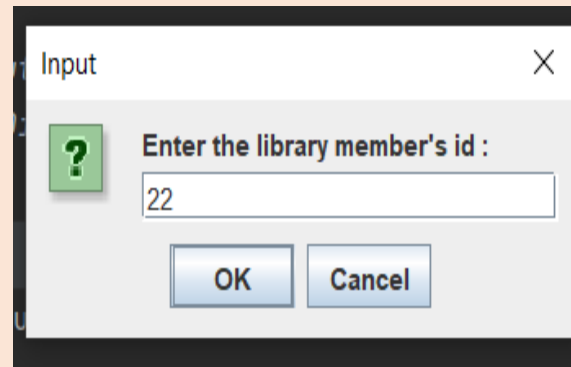
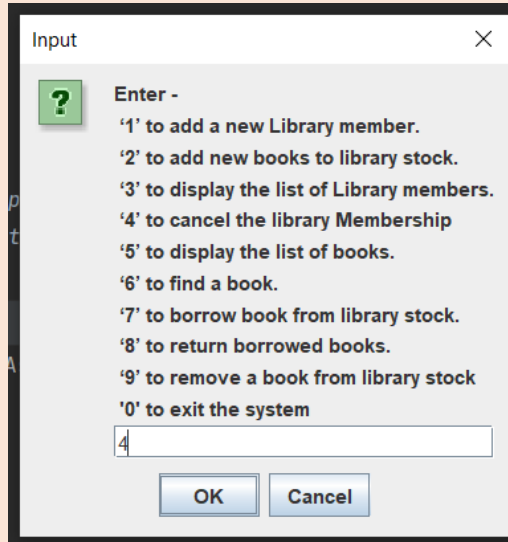
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- '0' to exit the system

OK Cancel

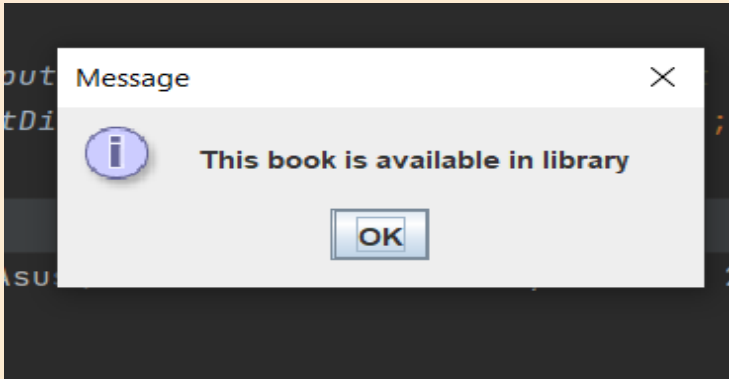
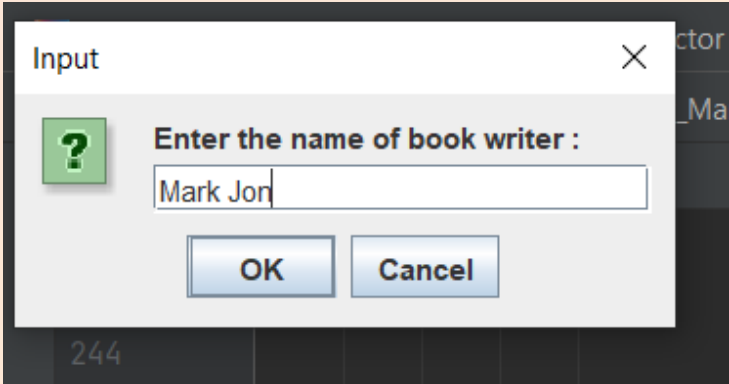
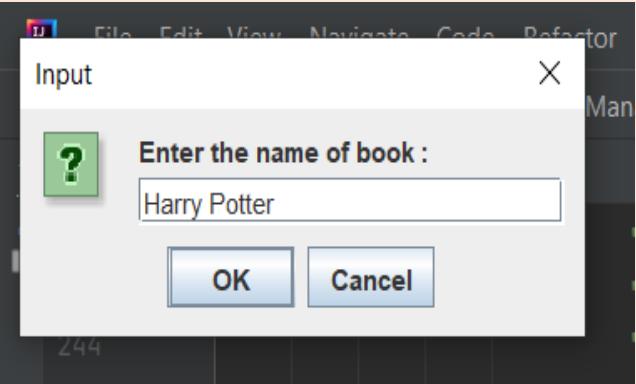
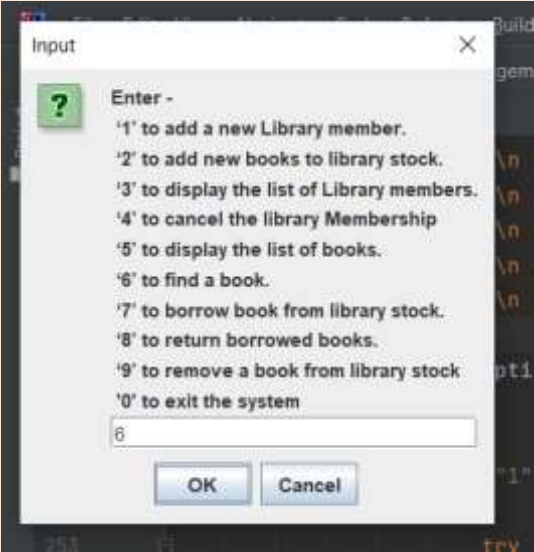


```
Run: Library_Management_System
"C:\Program Files\Java\jdk-19\bin\jav
Student name :afsana
Student ID :22
Department name :cse
Semester :2-1
```

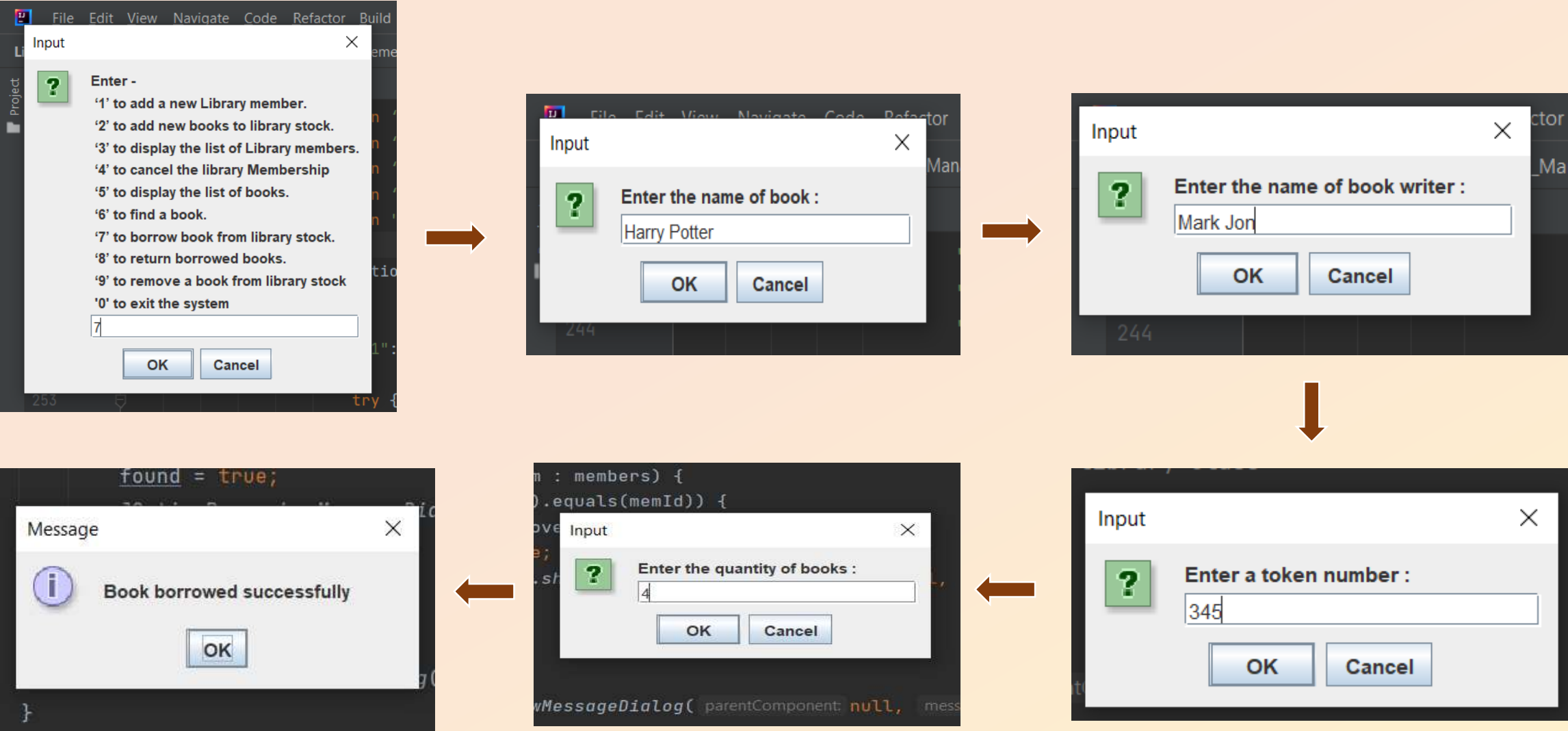

Cancel the library membership :



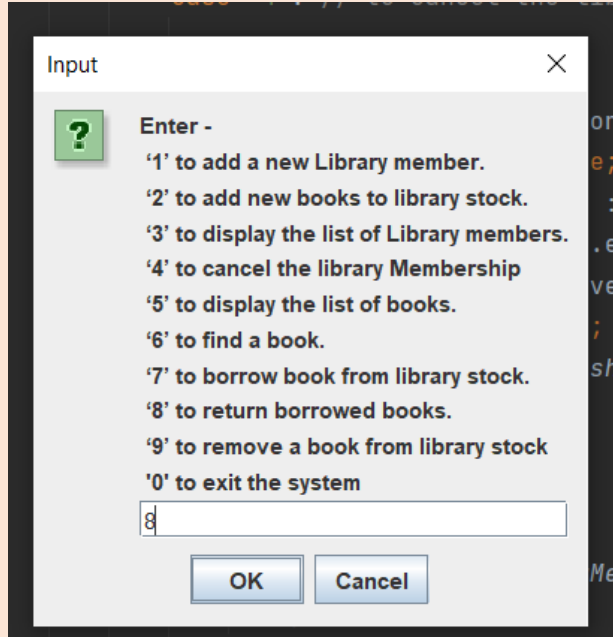
Find your required book :



Borrow your required books :



Return the borrowed :



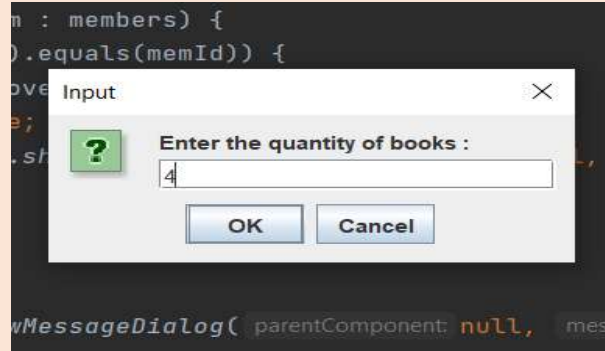
Input

Enter -

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- '9' to remove a book from library stock
- '0' to exit the system

8

OK Cancel

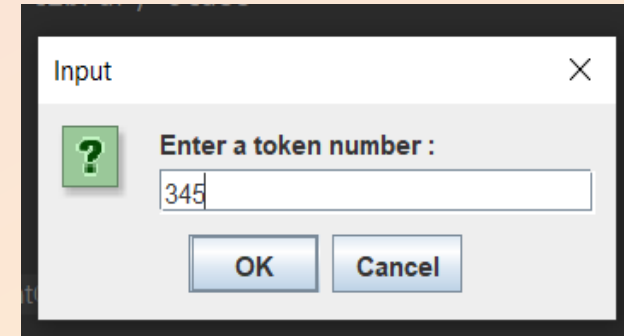


Input

Enter the quantity of books :

4

OK Cancel

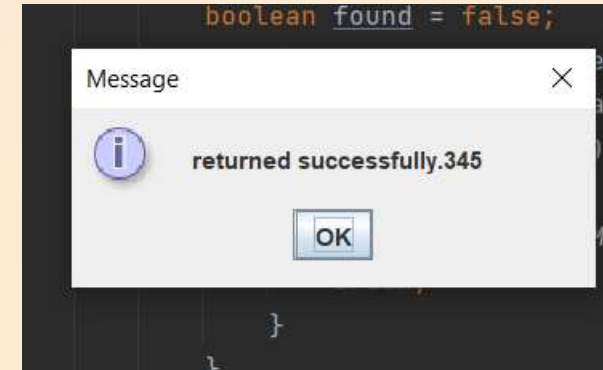


Input

Enter a token number :

345

OK Cancel

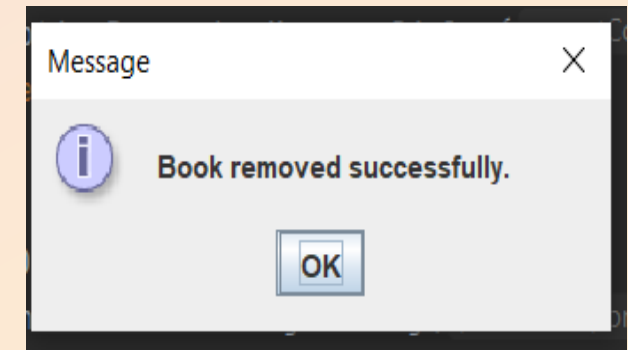
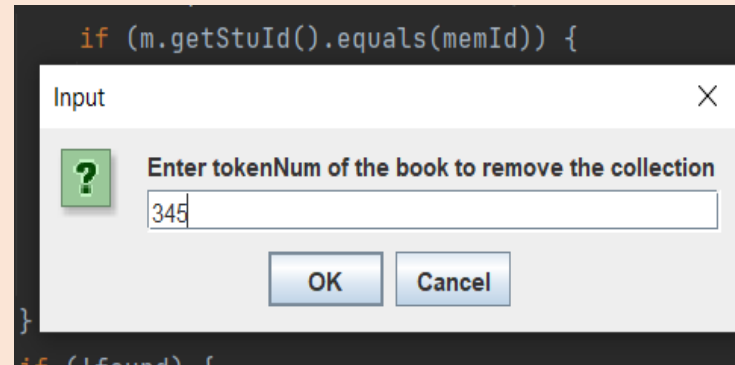
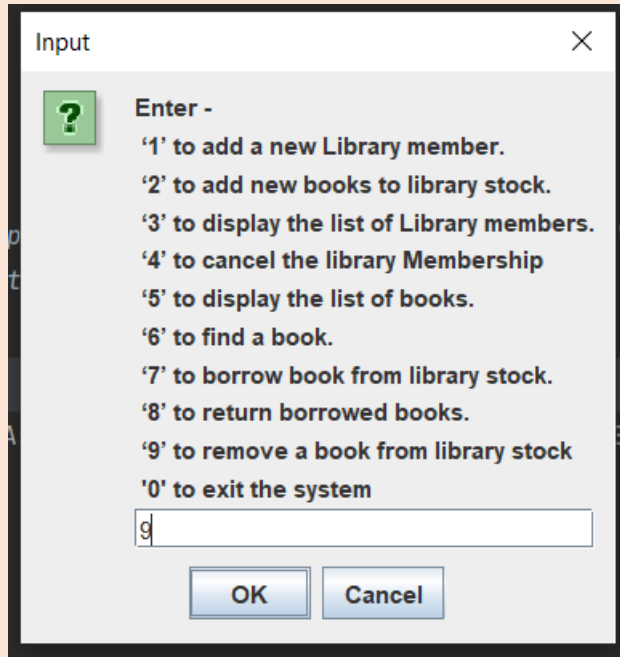


Message

returned successfully.345

OK

Remove books from the collection:



Exiting the library management system:

