

LMS – SAMPLE OUTPUT

Initial Menu

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 1

Adding a New Book

Enter book title: The Alchemist

Enter book author: Paulo Coelho

Book added successfully! Book ID: 1

===== Library Management System =====

1. Add a new book
2. Display all books
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6. Exit

Enter your choice: 1

Enter book title: To Kill a Mockingbird

Enter book author: Harper Lee

Book added successfully! Book ID: 2

Displaying All Books

===== Library Management System =====

1. Add a new book

2. Display all books

3. Search for a book

4. Borrow a book

5. Return a book

6. Exit

Enter your choice: 2

Available books:

ID	Title	Author	Availability
1	The Alchemist	Paulo Coelho	Available
2	To Kill a Mockingbird	Harper Lee	Available

Searching for a Book

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 3

Enter the title of the book to search: The Alchemist

Book found! ID: 1, Title: The Alchemist, Author: Paulo Coelho,
Availability: Available

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 3

Enter the title of the book to search: Invisible Man

Book not found.

Borrowing a Book

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 4

Enter the ID of the book to borrow: 1

You have successfully borrowed the book: The Alchemist

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book

5. Return a book

6. Exit

Enter your choice: 2

Available books:

ID	Title	Author	Availability
1	The Alchemist	Paulo Coelho	Not Available
2	To Kill a Mockingbird	Harper Lee	Available

Returning a Book

===== Library Management System =====

1. Add a new book

2. Display all books

3. Search for a book

4. Borrow a book

5. Return a book

6. Exit

Enter your choice: 5

Enter the ID of the book to return: 1

You have successfully returned the book: The Alchemist

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 2

Available books:

ID	Title	Author	Availability
1	The Alchemist	Paulo Coelho	Available
2	To Kill a Mockingbird	Harper Lee	Available

Exiting the System

===== Library Management System =====

1. Add a new book
2. Display all books
3. Search for a book
4. Borrow a book
5. Return a book
6. Exit

Enter your choice: 6

Exiting the system. Goodbye!

Explanation of Workflow

1. **Added Books:** Added two books, "The Alchemist" and "To Kill a Mockingbird."
2. **Displayed All Books:** Both books were displayed with availability status.
3. **Searched for Books:** Successfully searched for "The Alchemist." Failed search for "Invisible Man."
4. **Borrowed a Book:** Borrowed "The Alchemist," changing its availability to "Not Available."
5. **Returned a Book:** Returned "The Alchemist," restoring its availability to "Available."
6. **Exited the Program:** Gracefully exited the system.