Library Management System (Python)

This is a simple **Library Management System** written in Python.
It allows users to **add, view, search, issue, and return books** using a menu-driven command-line interface.

Features

1. Add Book

- User enters *title* and *author*
- Book is saved with status **Available**

2. View All Books

- Displays all books stored in the library
- Shows title, author, and current status (Available/Issued)

3. Search Book

- Search for a book by its title
- Case-insensitive search

4. Issue Book

- Issues a book if its status is **Available**
- Changes status to **Issued**

5. Return Book

- Returns a previously issued book
- Status changes back to **Available**

6. Exit

- Ends the program

How It Works

The system stores all books in a list of dictionaries:

library = [
   {"title": "Book Name", "author": "Author Name", "status": "Available"}
]

Each option from the menu calls a specific function to perform an action.

Code Structure

Function	Purpose
add_book()	Adds new book to the library
view_books()	Shows all books
search_book()	Searches book by title
issue_book()	Issues a book
return_book()	Returns issued book
Main Loop	Displays menu & takes user input

How to Run

1. Install Python (if not installed)
2. Save the file as library.py
3. Open terminal / CMD
4. Run:

python library.py

Future Improvements (if needed)

- Save data in a file (JSON or CSV)
- Add login system for admin & users
- Add book categories, IDs
- Show history of issued books

Contributing

Feel free to fork this repository and submit a pull request if you want to add features!

License

This project is free to use and modify for learning purposes.