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**Course: Python With Ai**

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**PROJECT NAME:**

**MINI LIBRARY MANAGEMENT SYSTEM**

## CODE:

```
available_books = (  
    "python basics",  
    "data structures",  
    "operating systems",  
    "database systems",  
    "computer networks"  
)
```

```
# issued books ka record (start mein empty rhega)  
issued_books = set()
```

```
while True:
```

```
    print("\n===== library menu =====")  
    print("1. show available books")  
    print("2. issue a book")  
    print("3. return a book")  
    print("4. show issued books")  
    print("5. exit")
```

```
choice = input("enter your choice (1-5): ")
```

```
# available books show karna  
if choice == "1":  
    print("\navailable books:")  
    book_found = False
```

```
for book in available_books:
    if book not in issued_books:
        print("-", book)
        book_found = True

    if not book_found:
        print("no books available at the moment")

# book issue karna
elif choice == "2":
    book_name = input("enter book name to issue: ").lower()

    if book_name in available_books:
        if book_name not in issued_books:
            issued_books.add(book_name)
            print("book issued successfully")
        else:
            print("this book is already issued")
    else:
        print("book not found in library")

# book return karna
elif choice == "3":
    if not issued_books:
        print("no books are currently issued")
    else:
        book_name = input("enter book name to return: ").lower()
```

```
if book_name in issued_books:  
    issued_books.remove(book_name)  
    print("book returned successfully")  
  
else:  
    print("this book was not issued")  
  
  
# issued books show karna  
  
elif choice == "4":  
    if not issued_books:  
        print("\nno books are currently issued")  
    else:  
        print("\nissued books:")  
        for book in issued_books:  
            print("-", book)  
  
  
# program exit  
  
elif choice == "5":  
    print("thank you for using library system")  
    break  
  
  
# invalid input  
  
else:  
    print("invalid choice, please try again")
```

## OUTPUT:

```
===== library menu =====
1. show available books
2. issue a book
3. return a book
4. show issued books
5. exit
enter your choice (1-5): 1

available books:
- python basics
- data structures
- operating systems
- database systems
- computer networks
```

```
===== library menu =====
1. show available books
2. issue a book
3. return a book
4. show issued books
5. exit
enter your choice (1-5): 2
enter book name to issue: discrete
book not found in library
```

```
Enter book name to issue: data structures
Book issued successfully
```

```
===== LIBRARY MENU =====
1. Show available books
2. Issue a book
3. Return a book
4. Show issued books
5. Exit
```

```
Enter your choice (1-5): █
```

```
Enter your choice (1-5): 3
```

```
Issued books:
- data structures
```

```
Enter book name to return: data structures
Book returned successfully
```

```
Enter your choice (1-5): 4
```

```
No books are currently issued
```

```
===== LIBRARY MENU =====
1. Show available books
2. Issue a book
3. Return a book
4. Show issued books
5. Exit
```

```
Enter your choice (1-5): 5
```

```
Thank you for using the library system
```