class = User

⊟ constructor	⊟ Requirements
__init__	name,location,age,adhar_id

class = Member

⊟ Methods	⊟ Requirements
searchbyname	name
check_availablity	name
available_books	
issueBook	name
returnBook	name
__repr__	

class = Pattern Recognition

⊟ functions
popular_books
popular_authors
good_readers

class = Librarian

⊟ Methods	⊟ Requirements
searchbyname	name
addBook	name,author,publish_date,pages,isbn
addBookItem	name,book_num,rack
removeBookItem	name,book_num
removeBook	name
add_book_to_catalog	catalog,name
remove_book_from_catalog	catalog,name
addBookItemtocatalog	,catalog,book,book_num,rack
removeBookItemFromCatalog	catalog,book,book_num
__repr__	

class = Catalog

⊟ Methods	⊟ Requirements
addBook	name,author,publish_date,pages,isbn
removeBook	name
addBookItem	book,book_num,rack
searchBybookName	name
searchByAuthor	author
searchBy_published_date	date
search_book_by_isbn	isbn
displayAllBooks	
removeBookItem	name,book_num
searchByName	name

class = Book

⊟ Methods	⊟ Requirements
addBookItem	name,book num,rack
printBook	
removeBookItem	name
searchbynum	book num
__repr__	
__str__	

Class = BookItem

⊟ Attributes
name,book num,rack