Class: Book

This class represents a book in the library

Class Methods:

Check_availability: this method checks whether or not a book is available
Print_details – prints details about the book

Class: Electronic Resources

This class represents an electronic resource in the library

Class methods:

Print_details: this method prints the details of the electronic devices in the list
Add_device: this method accepts a device and adds it to the list of devices

Class: Electronic Devices

This class represents an electronic device in the library

Class methods:

Print_device_details: this method prints the location and the availability of the device

Class: Library Member

This class represents a member of library in the library system, ie student, tutor or admin.

Class methods:

Print_user_details: this method prints the details of the library member, for example, name, user ID, books borrowed and messages received

Print_messages: this method prints all the messages received by the library member

Add_books: this method adds a borrowed book of the list of borrowed books for the library member

Print_books: this method prints all the details of the books currently borrowed

Number_borrowed: this method Returns the number of borrowed books by a library member

Class: Library System

This class represents the library system in the library

Class methods:

Print_details: this method prints the opening and closing details. Prints electronic resource and book details

Check: this method checks if electronic resources contains the resource

Edit_title: this method edits the title of the given resource

Search_resource: this method searches the electronic resource & book list for given resources

Search_isbn: this method searches for resource using isbn value, prints total amount of found resources. Prints the book details

Search_author: the method searches for resource using the author name, prints total amount of found authors and prints the book details

Remove_resource: this method removes a resource from the electronic resource & book list

remove_book_by_position: this method removes a book from book by specific position

remove_electronic_resource_by_position: this method removes an electronic resource from the electronic resource by specific position

print_all_available: this method returns all available items in the list book & electronic resource

get_number_resources: this method returns the number of resources in the electronic resources & book

add_resource: this method adds a resource to the list, rejects resource if it already exists in the electronic resources & book

lend_book: this method Lends the book to a library member

return_book: this method Accepts a book return and records damages, if any

messages: this method sends Message sent to all library members currently holding books

print_all_book_details: this method Prints all details for book resources

print_all_electronic_resource_details: this method Prints all details for electronic resources in resources