**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