

# Class Library

java.lang.Object  
Library

```
public class Library
extends Object
```

Write a description of class Library here.

**Version:**  
(a version number or a date)

**Author:**  
(your name)

## Field Summary

Fields		
Modifier and Type	Field	Description
<code>ArrayList&lt;LibraryResources&gt;</code>	<code>catalogue</code>	
<code>ArrayList&lt;LibraryMember&gt;</code>	<code>listOfMembers</code>	
<code>int</code>	<code>NumOfResources</code>	
<code>LibraryResources</code>	<code>Title</code>	

## Constructor Summary

Constructors	
Constructor	Description
<code>Library()</code>	Constructor for objects of class Library

## Method Summary

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	<b>addResources</b> ( <b>LibraryResources</b> resource)	adds resources that don't exist already in the library
void	<b>bookLending</b> ( <b>Book</b> bookobject, <b>LibraryMember</b> memberobject)	it lends a book to a selected library member if the book is in the catalogue, if it is available and if the member has already borrowed less than 5 books
boolean	<b>checkResourcesInCatalogue</b> ( <b>Object</b> resource)	returns a boolean to attest if a resource is in the catalogue
void	<b>EditTitle</b> ( <b>LibraryResources</b> resource, <b>String</b> newTitle)	Edits the title of a resource in the catalogue
int	<b>getNumberOfResources</b> ()	it prints the details of all the electronic resources in the catalogue
void	<b>printAllBooks</b> ()	it prints the details of all the books in the catalogue
void	<b>printAllBooksDetails</b> ()	it prints all the details of all the books in the catalogue
void	<b>printAllElectronicResourcesDetails</b> ()	it prints all the details of all the electronic resources in the catalogue
void	<b>printLibraryDetails</b> ()	print all the details
void	<b>removeIndexedResource</b> (int index)	it removes the resource that corresponds to the selected index in the catalogue array
void	<b>removeResource</b> ( <b>LibraryResources</b> resourceToRemove)	it detect a resource by its name and removes it from the catalogue, if the resource is not in the catalogue an appropriate message is printed
void	<b>returnBooks</b> ( <b>Book</b> returnedbook, boolean istheredamage, <b>String</b> newDamage)	it displays the act of returning a book, the member value goes back to null and new eventual damages are registered.
void	<b>searchByAuthor</b> ( <b>String</b> authorsearch)	it searches a resource in the catalogue by author and returns how many resources related to the author are in the catalogue
void	<b>searchByIsbn</b> ( <b>String</b> isbn)	it searches a resource by its Isbn value and returns how many resources with the said Isbn value were found
<b>Object</b>	<b>searchObject</b> ( <b>Object</b> resource)	it searches a resource in the catalogue by

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### Methods inherited from class [java.lang.Object](#)

`clone, equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

### Field Detail

#### catalogue

```
public ArrayList<LibraryResources> catalogue
```

#### Title

```
public LibraryResources Title
```

#### NumOfResources

```
public int NumOfResources
```

#### listOfMembers

```
public ArrayList<LibraryMember> listOfMembers
```

### Constructor Detail

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## Method Detail

### **addResources**

```
public void addResources(LibraryResources resource)
```

adds resources that don't exist already in the library

### **printLibraryDetails**

```
public void printLibraryDetails()
```

print all the details

### **checkResourcesInCatalogue**

```
public boolean checkResourcesInCatalogue(Object resource)
```

returns a boolean to attest if a resource is in the catalogue

### **EditTitle**

```
public void EditTitle(LibraryResources resource, String newTitle)
```

Edits the title of a resource in the catalogue

### **searchObject**

```
public Object searchObject(Object resource)
```

it searches a resource in the catalogue by its name and returns it, if the resource is not in the catalogue it returns null

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it searches a resource by its Isbn value and returns how many resources with the said Isbn value were found

#### **searchByAuthor**

```
public void searchByAuthor(String authorsearch)
```

it searches a resource in the catalogue by author and returns how many resources related to the author are in the catalogue

#### **removeResource**

```
public void removeResource(LibraryResources resourceToRemove)
```

it detect a resource by its name and removes it from the catalogue, if the resource is not in the catalogue an appropriate message is printed

#### **removeIndexedResource**

```
public void removeIndexedResource(int index)
```

it removes the resource that corresponds to the selected index in the catalogue array

#### **printAllBooks**

```
public void printAllBooks()
```

it prints the details of all the books in the catalogue

#### **getNumberOfResources**

```
public int getNumberOfResources()
```

it prints the details of all the electronic resources in the catalogue

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it lends a book to a selected library member if the book is in the catalogue, if it is available and if the member has already borrowed less than 5 books

#### **returnBooks**

```
public void returnBooks(Book returnedbook, boolean istheredamage,
String newDamage)
```

it displays the act of returning a book, the member value goes back to null and new eventual damages are registered. if the book does not exist an appropriate error message is printed

#### **sendMessegestoUsers**

```
public void sendMessegestoUsers(String message)
```

it sends a message to all the members that borrowed a book

#### **printAllBooksDetails**

```
public void printAllBooksDetails()
```

it prints all the details of all the books in the catalogue

#### **printAllElectronicResourcesDetails**

```
public void printAllElectronicResourcesDetails()
```

it prints all the details of all the electronic resources in the catalogue

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