

Class LibraryTest

java.lang.Object
LibraryTest

```
public class LibraryTest
extends Object
```

The test class LibraryTest.

Version:
(a version number or a date)

Author:
(your name)

Constructor Summary

Constructors	
Constructor	Description
<code>LibraryTest()</code>	

Method Summary

All Methods		Instance Methods	Concrete Methods
Modifier and Type	Method	Description	
void	<code>printAllElectronicResourcesDetails()</code>	it tests the PrintAllBooksDetails method by creating a book object and an ElectronicResource object and adding them to the Library catalogue.	
void	<code>testAddResources()</code>	tests the AddResources method by adding a Book object to a Library object and then calling the getNumberOfResources method expecting the int 1 in return	

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		method by adding a new Book object to the Library catalogue and by calling it.
void	testEditTitle()	tests the EditTitle method by calling it and updating the title of the selected LibraryResources object.
void	testGetNumberOfResources()	it creates two LibraryResources objects and adds them to the Library catalogue.
void	testPrintAllBooks()	it tests the printAllBooks method by creating a Book object and an ElectronicResource object.
void	testPrintAllBooksDetails()	it tests the PrintAllBooksDetails method by creating a book object and an ElectronicResource object and adding them to the Library catalogue.
void	testPrintLibraryDetails()	tests the printLibraryDetails method by calling it
void	testRemoveIndexedResource()	tests the removeIndexedResource by creating two LibraryResources objects and adding them to the Library catalogue.
void	testRemoveResource()	it tests the removeResource method by adding two LibraryResources objects to the Library catalogue and then removing only one.
void	testReturnBooks()	it tests the process of returning a book by creating a Book object, a Library object and a and adding it to the Library catalogue.
void	testSearchByAuthor()	tests the searchByAuthor method by creating two LibraryResource objects and adding them to the Library catalogue.
void	testSearchByIsbn()	tests the searchByIsbn method by creating two Book objects (the ElectronicResource objects don't contain Isbn) and adding them to the Library catalogue.
void	testSearchObject()	tests the SearchObject method by creating a new LibraryResource object and adding it to the Library catalogue.

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Methods inherited from class java.lang.Object

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

Constructor Detail

LibraryTest

```
public LibraryTest()
```

Method Detail

testAddResources

```
public void testAddResources()
```

tests the AddResources method by adding a Book object to a Library object and then calling the getNumberOfResources method expecting the int 1 in return

testPrintLibraryDetails

```
public void testPrintLibraryDetails()
```

tests the printLibraryDetails method by calling it

testCheckResourcesInCatalogue

```
public void testCheckResourcesInCatalogue()
```

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```
public void testEditTitle()
```

tests the EditTitle method by calling it and updating the title of the selected LibraryResources object. it then calls the getResourceTitle method expecting the new title in return

testSearchObject

```
public void testSearchObject()
```

tests the SearchObject method by creating a new LibraryResource object and adding it to the Library catalogue. it then calls the method expecting the added resource in return

testSearchByIsbn

```
public void testSearchByIsbn()
```

tests the searchByIsbn method by creating two Book objects (the ElectronicResource objects don't contain Isbn) and adding them to the Library catalogue. it then calls the searchByIsbn method selecting only one expecting in return the int1 and the printed details of the resource

testSearchByAuthor

```
public void testSearchByAuthor()
```

tests the searchByAuthor method by creting two LibraryResource objects and adding them to the Library catalogue. it then calls the searchByAuthor method expecting the int 1 in return and the printed details of the resource

testRemoveResource

```
public void testRemoveResource()
```

it tests the removeResource method by adding two LibraryResources objects to the Library catalogue and then removing only one. it then calls the printAllBooks method expecting only one resource to be printed

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Library catalogue. it then calls the `removeIndexedResource` method and removes the resource from the catalogue to the selected index in the array. it expects a null value in return

testPrintAllBooks

```
public void testPrintAllBooks()
```

it tests the `printAllBooks` method by creating a `Book` object and an `ElectronicResource` object. it then calls the `printAllBooks` method expecting only the book object's details to be printed

testGetNumberOfResources

```
public void testGetNumberOfResources()
```

it creates two `LibraryResources` objects and adds them to the Library catalogue. It then calls the `getNumberOfResources` expecting the int 2 in return

testBookLending

```
public void testBookLending()
```

it tests the process of Lending a book by creating a `Book` object, a `Library` object and a `LibraryMember` object. it adds the `Book` object to the `LibraryCatalogue`. It then calls the `testBookLending` method and adds the `Book` object to the list of `borrowedBooks` of the selected `LibraryMember` object. it then calls the `getNumberOfBooks` method of the `LibraryMember` object expecting the int 1 in return

testReturnBooks

```
public void testReturnBooks()
```

it tests the process of returning a book by creating a `Book` object, a `Library` object and a and adding it to the Library catalogue. it then adds the `libraryMember` value to the `Book` object. it calls the `returnBooks` method that changes the value of the `libraryMember` field to null and checks if new damages are present with a boolean value. if the value is true new damagaes are added. it then calls the `getBookDamages` method from the `Book` object expecting the new damages in return in case they were adding in the return process

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in the messages are sent only to the members that currently hold a book. it then calls the `sendMessagesToUsers` method and sends a message. It then calls the `printMessages` method in the `LibraryMember` object expecting to see the list of messages received printed

testPrintAllBooksDetails

```
public void testPrintAllBooksDetails()
```

it tests the `PrintAllBooksDetails` method by creating a book object and an `ElectronicResource` object and adding them to the Library catalogue. it then calls the method `PrintAllBookSDetails` expecting to print only the Book objects

printAllElectronicResourcesDetails

```
public void printAllElectronicResourcesDetails()
```

it tests the `PrintAllBooksDetails` method by creating a book object and an `ElectronicResource` object and adding them to the Library catalogue. it then calls the method `PrintAllElectronicResources` expecting to print only the `ElectronicResource` objects

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