

Book Manipulation

The district central library needs an application to store book details of their library. The clerk who has all the rights to add a new book, search for any book, display the book details and should update the count of total number of books.

You are provided with a Book with the following private attributes:

- int isbnno
- String bookName
- String author

Needed getters and setters are written.

Create a class Library with the following private attribute:

- ArrayList<Book> bookList = new ArrayList<Book>();
- Also provide the necessary setter and getter methods.

Include the following public methods:

1. void addBook(Book bobj) - This method should add the book object to the booklist.
2. boolean isEmpty() - This method should return true if the booklist is empty else return false.
3. ArrayList<Book> viewAllBooks() - This method should return the list of books maintained in the library.
4. ArrayList<Book> viewBooksByAuthor(String author) - This method should return a list of books written by the author passed as argument. When you display an empty list it should print the message "The list is empty".
5. int countnoofbook(String bname) - this method should return the count of books with the name passed as argument.

Write a Main class to test the above functionalities.

Sample Input and Output 1:

```
1.Add Book
2.Display all book details
3.Search Book by author
4.Count number of books - by book name
5.Exit
Enter your choice:
1
Enter the isbn no:
123
Enter the book name:
Java
Enter the author name:
Bruce Eckel
1.Add Book
2.Display all book details
```

- 3.Search Book by author
- 4.Count number of books - by book name
- 5.Exit

Enter your choice:

1

Enter the isbn no:

124

Enter the book name:

C++

Enter the author name:

Eric Nagler

1.Add Book

2.Display all book details

3.Search Book by author

4.Count number of books - by book name

5.Exit

Enter your choice:

3

Enter the author name:

Henry

None of the book published by the author Henry

1.Add Book

2.Display all book details

3.Search Book by author

4.Count number of books - by book name

5.Exit

Enter your choice:

3

Enter the author name:

Eric Nagler

ISBN no: 124

Book name: C++

Author name: Eric Nagler

1.Add Book

2.Display all book details

3.Search Book by author

4.Count number of books - by book name

5.Exit

Enter your choice:

5