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**Simple bookstore program**

1. **Book class**

Attributes: Author, title, publisher, stock position, price, rate, rate counter

* **Author:** The name of the author of the book of type string.
* **Title:** The title of the book of type string.
* **Publisher:** The name of the publisher of the book of type string.
* **Stock position:** The stock position of the book of type string.
* **Price:** The price of the book of type float.
* **Rate:** The rate of the book out of 5 of type float.
* **Rate counter:** The number of the clients who rated the books of type integer.

All the setters and getters and constructors are made using dynamic memory allocation.

1. **The main class**

The main class is divided into 3 sections: -

* **First:** creating the library.

We created the library of the books using the parametrized constructor, each book represented as an object of the *Book* class.

Then we created an array of the objects of the *Book* class of size 50 (the max size of the library).

Then we fill this array by the book objects created.

* **Second:** taking the input from the client.

We take an input from the client for the book he wanted, the client types the book title and the author’s name and if the client enters *“-1”* the program terminates.

* **Third:** searching for the book in library.

We created an int variable name *bookPos* which used for determining the book position at the library.

We created a for loop that loops on the whole library (the array of books) and at each book we compare the title and author’s name inputs of the client with the title and author’s name of the book.

If the book isn’t found the client can enter another book and so on.

If the book is found all the book details are shown on the screen, then the client is asked 2 questions: -

* Have you read this book before? If the client answers with yes then he rates the book out of 5, and if he answers with no then a "We hope you like the book." message appears.
* How many copies are you want? If the copies needed are greater than the copies in the stock, then a "The requested copies aren't in stock (and the exactly number of copies available are shown)” message appears, but if the copies needed are available then the total price is shown.

To add a new book simply make a new object of the book class at the main class.

The full project link: <https://drive.google.com/drive/folders/1kjjs6zVragknj4X0Cw5yC-9W-bm3rqkU?usp=sharing>