

Project name : Book shop

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Functions done :

1. CustomerToStruct function:

Reads customers data from Customer File into Customers struct.

2. booksToStruct function:

Reads books data from Book File into Books struct.

3. orderToStruct function:

Reads orders data from order File into Order struct.

4. search books function:

used to search for books by writing the title, catogry or author name of book.

```
-----  
-----  
How do you want to find your book?  
Title: 1  
Category: 2  
Author Name: 3  
  
Enter 1 or 2 or 3  
Please enter your number of choice: 1  
Search for:  
Oliver Twist  
Title is : Oliver Twist  
Category is : Drama  
Author Name is : Charles Dickens  
Publication Year is : 1986  
Price is : $6.39  
-----
```

5. signUp function:

Asks the new user to enter his username, password, email, home address and phone number. It also assigns the user a new ID and writes his data to allCustomers struct array and then to the Customers file.

A screenshot of a terminal window with a black background and white text. The text displays a menu with two options: '1- Sign up' and '2- Login'. Below the menu, it prompts the user to 'Please enter your choice : 1'. Following this, a series of prompts are shown for user registration: 'Enter Username : blakewilliam', 'Enter Password : 1223334444', 'Enter Email : blake@gmail.com', 'Enter Address :', 'City : Cairo', 'Area : Dokki', 'Street Number : 32', 'Building Number : 5', 'Floor : 1', and 'Enter Phone Number : 01083736346'. The terminal window has a standard title bar at the top with a minimize button icon on the left.

6. login function:

Receives username and password from existing customer and checks if they are the same as the data stored in the allCustomers array.

```
-----  
                        WELCOME  
-----  
1- Sign up  
2- Login  
Please enter your choice : 2  
  Enter username : jimgrey  
  Enter password : 20208374  
Incorrect username or password. Login attempt failed.  
  
Process returned 0 (0x0)   execution time : 9.531 s  
Press any key to continue.
```

7. customersData function:

Erases all existing data in the file and writes everything stored in allCustomers array to file.

8. editInformation function:

Asks customer what piece of personal information he would like to change and receives new data from him.

If it isn't the same as what is already stored in allCustomers, it stores the new value and saves changes to file using customerData().

```
If you'd like to change your :  
  1- Username  
  2- Password  
  3- Email Address  
  4- Home Address  
  5- Phone Number  
Please enter the number correspondent to it.  
5  
Phone Number : 01083736346  
Enter new phone number.  
01037354738  
All changes saved.
```

9. editedBooks function:

Erases all existing data in the file and writes everything stored in sb (books) array to file.

Used when a new order is added, in order to decrease quantity in file after it is decreased in the struct array.

10. showorderreceipt function:

Loops backwards over the orders struct array to display the very last order the customer has placed and breaks, that is if he placed any.

```
Order Date: 14/6/2021
Shipping Date: 17/6/2021
List of book IDs:
Book1: 5
Total price: 25.34
```

11. showAllOrders function:

Loops over the orders struct array to display all orders the customers has placed, if any were placed.

```
Order Date: 13/6/2021
Shipping Date: 16/6/2021
List of book IDs:
Book1: 7
Book2: 4
Total price: 156.31

Order Date: 14/6/2021
Shipping Date: 17/6/2021
List of book IDs:
Book1: 5
Total price: 25.34
```

12. add_order function:

If the book's quantity of stock not equal zero the customer will add number of books he wants and the book's ids and the data (customer id & order date (current date) & ship date (3 days after order date) & the books ids) and then it'll call order function to save this data in order file.

```
Book Title: David Copperfield
Category: Fiction
Author Name: Charles Dickens
Year Published: 1849
Book ID: 6
Price: 45.21
```

```
-----
Book Title: Invisible Man
Category: Fiction
Author Name: James Whale
Year Published: 2020
Book ID: 7
Price: 105.32
```

```
-----
Book Title: The Discovery Of Grounded Theory
Category: Social
Author Name: Barney Glaser
Year Published: 1967
Book ID: 8
Price: 60.32
```

```
-----
Book Title: The Next Everest
Category: Adventure
Author Name: Jim Davidson
Year Published: 2015
Book ID: 10
Price: 87.54
```

```
-----
How many books do you want to buy?
```

```
How many books do you want to buy?
2
The book's ID : 1
4
```

13. order function:

this function write array of struct of orders in Order file.