

Final Project

CS1131

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Introduction:

The Book Club program is designed to allow users to manage a book club. The program allows users to add members, books, and manage the borrowing of books. The program is written in C++ and offers six different options to the user.

Execute:

```

C:\Users\dema_OneDrive\اب >
-----Welcome to Effat University book club-----
-----Initializing the members data-----
-----Initializing the book data-----

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit
    
```

1- Print Members:

This option allows the user to view all the members along with their ID numbers.

```

Enter your selection: 1
-----
Members list at the club
-----
memberID      FirstName      LastName
-----
20101999      Amani          Wadaani
20108282      Danah          Hamidah
20106517      Deema          Hamidah
20106273      Fatma          Salama
20102030      Joudi          Mohammad
20105421      Lamar          Abdullah
20109752      LayaL          Aljabri
20102121      Layan          Alsharabi
20102345      Reema          Ahmad
20106527      Rehad          Alshehri
-----
    
```

2- Print Books:

This option shows the book's title, publish year, author, and ID number.

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 2

-----
Books list
-----
bookID      bookTitle      bookAuthor      Publish year
-----
6           BetweenSisters  Kristin          2017
1           Endings        Abdullrahman    1999
3           GoneGirt       Gillian          1998
7           LegalSkills    Finch            2017
5           MenInTheSun    Ghasan          1992
2           Origin         DanBrown        1996
4           TheHelp       Kathryn          1998
-----

```

3- Print all books taken:

If no one took a book yet, this option will print "no books taken yet". Otherwise, it will print all members who took a book along with their information and the book's information.

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 3

-----No Books Taken yet-----

```

```

Please insert book's title: Origin
-----Taken book added seccfully!!-----

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 3

-----
Taken list
-----
memberID    firstName    lastName    bookID    bookTitle    bookAuthor    Publish year
-----
20106517    Deema       Hamidah    1         Endings     Abdullrahman  1999
20101999    Amani       Wadaani    2         Origin      DanBrown      1996
-----

```

Final Project

CS1131

4- Print book taken by member:

This option will print "(member is not added)" if the member hasn't taken any book yet. Otherwise, it will print the member's information along with all the books they have taken.

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 4

Please insert member's id: 20106517

-----
books taken by '20106517'
-----
memberID      firstName    lastName    bookID      bookTitle    bookAuthor    Publish year
-----
20106517      Deema       Hamidah     1           Endings     Abdullrahman  1999

```

5- Add book taken by member:

This option allows the user to add a book taken by a member. The user will be asked to provide the member's ID and the book's title.

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 5

Please insert member's id: 2

Please insert book's title: Endings

-----Member is not FOUND!!-----

```

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 5

Please insert member's id: 20106517

Please insert book's title: e

-----Book is not FOUND!!-----

```

```

What would you like to do:
(1) Print members
(2) Print books
(3) Print all books taken
(4) Print book taken by member
(5) Add book taken by member
(0) Exit

Enter your selection: 4

Please insert member's id: 20106517

-----
books taken by '20106517'
-----
memberID      firstName    lastName    bookID      bookTitle    bookAuthor    Publish year
-----
20106517      Deema       Hamidah     1           Endings     Abdullrahman  1999

```

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Final Project

CS1131

6- Exit:

This option allows the user to exit the program.

Conclusion:

The Book Club program is a useful tool for managing a book club. It offers several options to the user, including adding members, books, and managing the borrowing of books. The program is written in C++ and is easy to use. The program can be further improved by adding more features like searching for books and members, updating member and book information, and keeping track of overdue books.