≡ students.txt

```
1    Ebrar Ozkan,220104004005,1003
2    Hakan Demir,210104004055,1001
```

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 1
Please enter the id of the student that you want to see which books are borrowed: 210104004055

Student's number and name is: 210104004055,Hakan Demir
Borrowed books are: 1001,

1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: ☐
```

books.txt — editor tab

```
1  999,CBR1000RR-R Fireblade,Honda,2022,0
2  1000,Game of Thrones,George R. R. Martin,1402,0
3  1001,A Clash of Kings,George R. R. Martin,1998,1
4  1002,A Storm of Swords,George R. R. Martin,2000,0
5  1003,A Feast for Crows,George R. R. Martin,2005,1
6  1004,A Dance with Dragons,George R. R. Martin,2011,0
7  998,Hakanin Kitabi,Hakan,2003,0
8
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 1
Please enter the id of the student that you want to see which books are borrowed: 210104004055

Student's number and name is: 210104004055,Hakan Demir
Borrowed books are: 1001,

1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 2
select method (0 or 1): 0
enter values seperated with comma(,):(ISBN,title,author,publication year):  998,Hakanin Kitabi,Hakan,2003
1. Show a student's borrowed books list
2. Add book to library
```

```
C main.c        ☰ students.txt        ☰ books.txt  ✕                    ▷  ◫  ⋯

☰ books.txt

1   997,hakanin kitabi,method 1,2014,0
2   999,CBR1000RR-R Fireblade,Honda,2022,0
3   1000,Game of Thrones,George R. R. Martin,1402,0
4   1001,A Clash of Kings,George R. R. Martin,1998,1
5   1002,A Storm of Swords,George R. R. Martin,2000,0
6   1003,A Feast for Crows,George R. R. Martin,2005,1
7   1004,A Dance with Dragons,George R. R. Martin,2011,0
8   998,Hakanin Kitabi,Hakan,2003,0
9
```

```
TERMINAL

1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 2
select method (0 or 1): 1
enter values seperated with comma(,):(ISBN,title,author,publication year):  997,hakanin kitabi,method 1,2014
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

```
books.txt

1  997,hakanin kitabi,method 1,2014,0
2  999,CBR1000RR-R Fireblade,Honda,2022,0
3  1001,A Clash of Kings,George R. R. Martin,1998,1
4  1002,A Storm of Swords,George R. R. Martin,2000,0
5  1003,A Feast for Crows,George R. R. Martin,2005,1
6  1004,A Dance with Dragons,George R. R. Martin,2011,0
7  998,Hakanin Kitabi,Hakan,2003,0
8
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 3

Enter the ISBN number of the book you want to delete: 1000
Book with ISBN 1000 has been deleted.
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

books.txt

```
1  997,hakanin kitabi,method 1,2014,0
2  999,CBR1000RR-R Fireblade,Honda,2022,0
3  1001,Yeni ad,George R. R. Martin,1998,1
4  1002,A Storm of Swords,George R. R. Martin,2000,0
5  1003,A Feast for Crows,George R. R. Martin,2005,1
6  1004,A Dance with Dragons,George R. R. Martin,2011,0
7  998,Hakanin Kitabi,Hakan,2003,0
8
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 4
Enter the ISBN of the book you want to change a value of it: 1001

1. Title
2. Author
3. Publication Year
Enter the feature: 1
Enter the new value for the selected feature: Yeni ad
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

books.txt

```
1   997,hakanin kitabi,method 1,2014,0
2   999,CBR1000RR-R Fireblade,Honda,2022,0
3   1001,Yeni ad,George R. R. Martin,1998,1
4   1002,A Storm of Swords,George R. R. Martin,2000,0
5   1003,A Feast for Crows,George R. R. Martin,2005,1
6   1004,A Dance with Dragons,George R. R. Martin,2011,0
7   998,Hakanin Kitabi,Hakan,2003,0
8
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 5
Filter and Sort Books
Enter filter choice (0 for author, 1 for publication year): 0
Enter filter criteria: George R. R. Martin
Enter sort choice (0 for title, 1 for author, 2 for publication year): 2
Filtered and sorted books:
ISBN: 1001
Title: Yeni ad
Author: George R. R. Martin
Publication Year: 1998
Reserved Status: 1
Method: 0

ISBN: 1002
Title: A Storm of Swords
Author: George R. R. Martin
Publication Year: 2000
Reserved Status: 0
Method: 0

ISBN: 1003
Title: A Feast for Crows
Author: George R. R. Martin
Publication Year: 2005
Reserved Status: 1
Method: 0

ISBN: 1004
Title: A Dance with Dragons
Author: George R. R. Martin
Publication Year: 2011
Reserved Status: 0
Method: 0

1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
```

```
books.txt
1    998,Hakanin Kitabi,Hakan,2003,0
2    1004,A Dance with Dragons,George R. R. Martin,2011,0
3    1003,A Feast for Crows,George R. R. Martin,2005,1
4    1002,A Storm of Swords,George R. R. Martin,2000,0
5    1001,Yeni ad,George R. R. Martin,1998,1
6    999,CBR1000RR-R Fireblade,Honda,2022,0
7    997,hakanin kitabi,method 1,2014,0
8
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 6
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

students.txt

```
1    Ebrar Ozkan,220104004005,1003,1004
2    Hakan Demir,210104004055,1001
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 7

Enter the ISBN number of the book you want to borrow: 1004

Enter the students ID to give it the book to student: 220104004005
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

students.txt

```
1   Ebrar Ozkan,220104004005,1003,
2   Hakan Demir,210104004055,1001
```

TERMINAL

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 8

Enter the ISBN number of the book you want to return: 1004
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection:
```

students.txt

```
1    Ebrar Ozkan,220104004005,1003,1004
2    Hakan Demir,210104004055,1001
```

1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 9 and 10.th cases added for the increasing the readibility of the code, and wasn't part of the assigment

students.txt

```
1  Ebrar Ozkan,220104004005,1003,1004
2  Hakan Demir,210104004055,1001
```

```
1. Show a student's borrowed books list
2. Add book to library
3. Delete a book
4. Update a book's feature
5. Filter and Sort books
6. Reverse book list
7. Borrow books
8. Return Books
9. Print all the books in the library
10. Print all the students borrowed books and informations
0. Terminate the program
Enter selection: 0

Exitted!!
hakan@hakan:~/Desktop/102/hw10$
```