

**COM 101 – INTRODUCTION TO PROGRAMMING**

**LAB Assignment #11**

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**Course Instructor :** Inst. Gökhan Akyol

**Course Assistants :** Res.Asst. Arzum Karataş & Res. Asst. Feyza Galip

**A- Examples**

Structures are used to represent records. Let's assume that we want to keep track of books in our private libraries and keep track of **id**, **title**, **author**, and **category** attributes.

**1- Printing Book List from a file by using structures**

Write a C code that prints all book information written in "BooksListFile.txt" whose format is seen below.

```
1 I_Robot Isaac_Asimov fiction
2 Beyond_the_Spiderwick_Chronicles Hollo_Black fantasy
3 Scott_Pilgrim Bryan_Lee_O'Malley comics
4 I_am_Legend Richard_Matheson fiction
5 Love_Poems Frank_O'Hara poem
6 The_Adventures_of_Tintin Herge comics
```

**2- Search books inside Book records collection.**

Modify Question1 by adding a search capacity by id. Use the same file shown above.

**3- Add a new book record into a file by using structures**

Modify Question2 by adding a appending capacity to add a new book record into "BooksListFile.txt" by using structures.

#### **4- Delete an existing a book record**

Modify the code in Question3 to have an ability to remove an existing book attribute values by using book id from the file.