

In this lab you are going to implement a program which has a **struct** named **course** and it has 3 different attributes;

courseId – Integer

courseName – String (can be 20 length)

grade – double

You are going to use **file operations** with that struct. You can use **menu** for that operations. Here is what we need;

- Add course
- Delete course
- List courses
- Update course function is necessary for our system.

You will make these operations with a file named **courses.dat**. Here is a sample usage of the functions below.

List Courses

```
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
3
-----
Course ID      Course Name      Grade
1              DENEME          55.00
2              ADDEDCourse    78.79
```

Add Course

```
Course ID      Course Name      Grade
1              DENEME          55.00
2              ADDEDCourse    78.79
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
1
Enter the course ID: 5
Enter the course name and grade
CALCULUS
88.22
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
3
-----
Course ID      Course Name      Grade
1              DENEME          55.00
2              ADDEDCourse    78.79
5              CALCULUS      88.22
```

Delete Course

```
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
3
-----
Course ID      Course Name      Grade
1              DENEME          55.00
3              UPDATEDCourse  81.82
5              CALCULUS       88.22
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
2
Enter Course ID to delete the course: 1
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
3
-----
Course ID      Course Name      Grade
3              UPDATEDCourse  81.82
5              CALCULUS       88.22
```

Update Course

```
-----
Course ID      Course Name      Grade
1              DENEME          55.00
2              ADDEDCourse     78.79
5              CALCULUS       88.22
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
4
Enter Course ID to update the course: 2
Enter course ID, course Name and grade
3
UPDATEDCourse
81.82
1-Add Course
2-Delete Course
3-List Courses
4-Update Course
5-Exit
3
-----
Course ID      Course Name      Grade
1              DENEME          55.00
3              UPDATEDCourse  81.82
5              CALCULUS       88.22
```