

DATA STRUCTURES

HOMEWORK #2

Due Date 28-11-2021

You are given the students.txt file which includes ids, names, and two grades (Math and Data Structures respectively). Read the content from this file and construct a linked list in reading order. I expect you to have a student class and keep the objects of that class in the linked list. After constructing the list have a menu to do the following using your linked list;

- Display the linked list content.
- Display the students sorted by their overall average. For this problem, use compareTo method of Student class you have written.
- Display the student names sorted by their data structure grades.
- Find and display the math average.
- Find and display the student(s) who has the lowest Data Structures grade.
- Delete the student whose id is entered by the user.
- insert a new student to the list by getting the info from the user.
- Find and display the student count.
- Students pass the class if their grade is above the average for each course. Find and display the successful students for each course.

Upload your homework on to the DYS system including codes and instructions on how your program works.

You are required to do your homework by yourself. Cheating is strictly prohibited. Cheaters will get -100 points.