Web Programming III (420-5W6)  
Fall 2022

**Assignment # 2 (worth 7%)  
Due: Sunday, September 25th, 2022 at 23:59 on Lea**

*Deductions for late submissions is 10%/day, up to a maximum of 3 days.   
Better late than never.*

# Instructions

* Submit one Visual Studio .Net Core C# Console Project to include all these questions below.
* Files provided:
  + LINQClasses.txt
    - Use these classes and place each class in a file. Follow the TODO inside.
    - Add the data from the Lists inside in an Util class.
  + Partial-Solution-Output.txt 🡺 Your output file should have the same headings and similar output format as the data in this file. <MORE> represents more data should be printed for that category.
* In Program.cs add this header:

/\*

\* Course: Web Programming 3

\* Assessment: Assignment 2

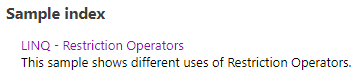
\* Created by: STUDENT NAME

\* Date: X September 202x

\* Class Name: Employee.cs

\* Description: Explain what the class stores and its functionality.

\*/

1. Spend some time looking through (and trying out) the sample LINQ queries on:
   1. File found on Lea. Note: The examples can be found in each folder 🡺 click on *description.html*
   2. At the bottom of the page look for the links
2. Using the class definitions and data provided, write LINQ queries to produce the following. Output all the LINQ query results in **solution.txt and to standard out**. The headings should be like the provided **Partial-Solution-Output.txt**.
3. Students who are under 18 years of age (in order of age)
4. Students who are teenagers (alphabetical order by last name)
5. Students who scored 80 or more in their last test (order by score descending)
6. Students who scored over 320 marks in total (across all their tests)
7. Students who scored at least 60 in all their tests
8. Students grouped by first letter of their last name
9. Average score of each test
10. Students who are also teachers
11. Courses of a duration of 15 weeks
12. Courses held in the Winter semester (order by duration)
13. Courses grouped by semester
14. Add a /// <summary> for each method describing what it does.