Integration Project (420-516-AB)  
Fall 2020

**Assignment # 2 (worth 5% or 6.7%)  
Due: Wednesday, September 16th, 2020 at 23:59 on Lea**

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

Create one C# Console App (.NET Core) project to include all these questions. Create a menu system with a loop to reach every question without stopping the program.

1. Spend some time looking through (and trying out) the sample LINQ queries on:
   1. Found on Lea
      1. Note: The examples can be found in each folder 🡺 click on *description.html*
   2. <https://docs.microsoft.com/en-us/samples/dotnet/try-samples/101-linq-samples/>
2. Using the class definitions and data provided, write a C# console application that creates and uses LINQ queries to produce the following:

* Students who are under 18 years of age (in order of age)
* Students who are teenagers (alphabetical order by last name)
* Students who scored 80 or more in their last test (order by score descending)
* Students who scored over 320 marks in total (across all their tests)
* Students who scored at least 60 in all of their tests
* Students grouped by first letter of their last name
* Average score of each test
* Students who are also teachers
* Courses of a duration of 15 weeks
* Courses held in the Winter semester (order by duration)
* Courses grouped by semester