**CSCI 3037 OLA# Linq to List**

**Due: April 22 (Wedneday) midnight**

**Objective**: **Read from a Text file** and C# List<T> generic collection

**Problem**: Read a text file and build a list of student’s data. You should sort the list **(without Linq)** by GPA in descending order.

Input text file: csvDBData.txt (sample file format below – it has header on the first line)

Lastname,Firstname,Class,Earned Hours,GPA,Course,CourseNumber,FinalGrade,TotalCSCICreditHrs,CSCI GPA

Gomez,Christine,SR,124,3.0673,CSCI1170,1170,B,36,2.8144

Gomez,Christine,SR,124,3.0673,CSCI2170,2170,B+,36,2.8144

Gomez,Christine,SR,124,3.0673,CSCI3038,3038,A,36,2.8144

Gomez,Christine,SR,124,3.0673,CSCI3080,3080,B,36,2.8144

Gomez,Christine,SR,124,3.0673,CSCI3110,3110,A,36,2.8144

Barrett,Philip,JR,87,1.6664,CSCI1000,1000,B+,8,2:

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Read text file and process data line by line. Use try-catch for file processing.

Parse (split) line for each data field. Use try-catch for parsing and converting.

Add each line to the List of objects.

LINQ to Objects using a List<student>.

Use LINQ to:

* Print the top ten students in the list. It will combine courses for the same student and display top 10 students in GPA order(descending) It should not show same name more than once.
* sample:

Student Name,Class,Earned Hours,GPA, **CourseNumberAndGradeLis**t,TotalCSCICreditHrs,CSCI GPA

Gomez, Christine,SR,124,3.0673,**CSCI1170B CSCI2170B CSCI3038A CSCI3080B CSCI3110A**, 36,2.8144

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