CMPE 318 Assignment 1: Warm-up to C# or JAVA and file processing

To be done in groups of two. Pick your partner!

Write a C# or JAVA program that keeps information about students. A student will have the attributes **student number, first name, last name, date of birth, sex, and country of birth.** Create a **Student** class, with getter and setter methods for private attributes. Have an array of Student objects for keeping the student information. The array should be able to contain 100 students.

Your program should have the following menu structure:

- **Write** the contents of the student array to a file
- **Read** student data from a file and populate the student array.
- Add a new student
- Find a student by student number, and show all the information about that student, *including the age of the student*
- Show all students (all the information about them: name, lastname, age etc.)
- Show all students who were born in a given year (e.g. 2000)
- Modify a student record: input the student number, ask the field to modify, and get the new value from the user. Modify the record accordingly.
- Delete a student with a specific student number.
- Quit

Grading: The project itself will be given a grade, which will be common to both partners who did the project. Then, a separate grade will be given to each partner, which will be based on the judgment of the grader, corresponding to how well each partner answers questions on the project.

What to hand in: A CD containing your program + sample runs. Different assignments can be given in one CD to preserve resources. The work of each group should be under a directory whose name is the names of the students in the group. So for example, if Tom Cruise and Oprah Winfrey are partners, then their work should be in the directory "Tom Cruise - Oprah Winfrey".