## Lab 2. Simple classes. Methods.

Write a class in C++ that has the following definition:

Organize the code in the following way:

- a header file called NumberList.h
- a cpp file called NumberList.cpp that contains the source code for class NumberList
- a main file called main.cpp that contains the main function and has an example on how to use NumberList. The example must include using all methods from the class.
- make sure that precompile headers are NOT used (for Visual Studio setup).

Design a C++ class (following the previous problem) that reflects the properties of a student. The class should include the following:

- methods to set and get the name of the student
- methods to set and get the grade for mathematics (a grade must be a float value from 1 to 10)
- methods to set and get the grade for English (a grade must be a float value from 1 to 10)
- methods to set and get the grade for History (a grade must be a float value from 1 to 10)
- a method that retrieves the average grade
- 5 global functions that compares two students in terms of name, grades, average. If two students are equal the return value of such a function will be 0. If the first student is bigger than the second one, the return value will be 1, otherwise -1.

## Make sure that you have the following:

- a header file for the class
- a cpp file for the methods specific to the class
- a header file for the global functions
- a cpp file for the global functions implementation
- a main.cpp file that shows how the methods and global functions can be used.