

CSCI 232 Data Structures and Algorithms

Programming Assignment 2: Class Header, Class Implementation, and Client in Separate Files

Due Wednesday, September 13

1. Read through the resources posted on Moodle. Follow the video for Visual Studio instructions.
 - Separating your class into header and implementation files:
<http://www.cppforschool.com/tutorial/separate-header-and-implementation-files.html>
 - How to do it in Visual Studio: https://youtu.be/m9-W_NsR_UA?feature=shared
2. Then, use the scheme to create an Employee class that has the following data fields:
 - EmpName: string
 - EmpSalary: float
 - EmpYearsOfService: int
3. Write the following methods:
 - Default and parameterized constructors
 - Accessors and mutators for each data field
 - A method to print a single employee object
4. Write a client program to test the methods.
 - Create a single employee object and test the methods
 - Create an array of 5 employee objects and test the methods
5. Write static functions to print all employee info, calculate mean salary and total salaries for a year, and calculate mean years of service.

**** Strategies for success:**

- Follow the video step-by-step with a simple example.
- Use incremental development! Start with the simple example and then incrementally add data fields and methods to your header file and class implementation.
- Work on the files in this order: header, class implementation, client