**Assignment 7 – Strings (and more Functions)**

Submit to MUOnline as a compressed (.zip) file containing your code project.

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| 1. | Write and test a function that accepts the name of a file (like C:\test.txt or notes.docx) as an argument and **returns** the file’s extension. For instance:  func(“C:\test.txt”) should return .txt  func(“notes.docx”) should return .docx  func(“code.sln.filter”) should return .filter  func(“Bob Smith”) should return an empty string or string::npos. | 30% |
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| 2. | Write and test a **void** function that takes a string parameter and capitalizes the first letter in each word. There should be **no output** in the function (no cout). The program should display the normal string, then call the function, then display the adjusted string in main(). | 30% |
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| 3. | In the same project or a new one if you prefer, ask the user for a password. Then, write and test a function that determines whether or not their password is secure. A secure password should have at least 8 characters, one uppercase letter, one lowercase letter, and one number. If it is not secure, the program should tell the user why it is not and let them try again. Remember to find out if a letter is uppercase | 40% |
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| 4. | Penalty: If you have no comments, I’ll take off 10%. At least have your names/dates/who assisted you if you studied with or asked someone for help, and a comment over each function describing it. Ideally you would also have comments explaining any code that isn’t self-explanatory. | -10%  Penalty |