

# Lab: Review Functions and I/O

## OBJECTIVES:

At the end of this lab students will be able to:

- Use functions appropriately
- Use input and output statements with stringstream.

## PROBLEM STATEMENT

Use GitHub and Cloud 9 to complete a review programming assignment. Complete the following tasks:

1. Copy and paste the starter code into a new file in your Cloud9 IDE workspace. Don't forget the unit test and header files.
2. (6 points) Look at `int StringToInt(string value)` function. This function is complete and should be used as an example. Use this to complete the following functions:
  - a. `StringToChar`
  - b. `StringToDouble`
  - c. `StringToBool`
3. (3 points) Complete the function `MakeString`.
4. (1 point) Update your makefile to compile the program and run the unit tests.
5. When you are finished, be sure to synchronize your Cloud9 workspace with GitHub.  
[http://foobt.net/fall2015/csci21\\_2977/files/guide-github-cloud9.html](http://foobt.net/fall2015/csci21_2977/files/guide-github-cloud9.html)
6. Post to the assignment in Blackboard, the following:
  - a. Attach: Copy your code into separate text files and zip them together.
  - b. Attach: Screenshot of your program running and showing that it works
  - c. Comment: a link to your Cloud9 IDE workspace AND a link to GitHub repository

## GRADING

10 points

Deductions to your score will be assessed for any of the following:

- code, such as output statements, not explicitly required by the challenge -- 10% deduction
- bad programming style (choice of variable names, source code formatting) -- 10% deduction
- submitting code that does not compile -- automatic zero (0) on the challenge
- warnings – 30% deduction