

# COMP220 - Lab 2 & Homework 2

Fall 2015

## Abstract

This lab is essentially more review. This time you'll need to do a standard function as well as an I/O function. Chapter 4, section 4 of the text provides a good overview of the streaming I/O class hierarchy. The chapter also discusses formatted output in section 1. Lecture notes 9 from COMP161 discuss the application of our design process to I/O procedures. This includes how to use gTest and string streams to write unit tests for I/O based procedures.

## 1 Lab 2

Your task is a slightly modified version of exercise 2 from chapter 4 of the text. For lab you should:

- Document, declare, stub, and write tests for the *windChill* function as described in chapter 2 exercise 4.
- Document, declare, stub, and write a test for a procedure to print the wind chill table as discussed in chapter 4 exercise 2. Your table does not need the graphics and can essentially be just the data with row and column headers (i.e. just the numbers).
- Write a simple main procedure which calls your table printing procedure. (Note that this should compile and run but will only do what your stubs indicate it should do).

Your functions can both be in a single library and namespace. Once these tasks are done, or lab time is up, submit your source code as *lab2* using the handin script.

## 2 Homework 2

For homework you should complete the implementation of both functions and debug as necessary. Submit the source code for the completed program as *hwk2* using handin. This assignment is due by **8am on Monday 9/7**.