# CSCI 1470 – Fall 2015 Lab 3 In-class Assignment

**Topic:** Selection (**if**, **if-else** statements), Formatting, Symbolic Constants   
**Reading:** Ch. 4 pp. 163-210, Ch. 3 pp. 113-123

Submit all source codes (\*.cpp) at the same time via email to clarenceb@uca.edu

***\*Note: Include the following set of comments at the top of your source code for all assignments.***

***// Student Name:***

***// Assignment #: (Example: A3-1)***

***// Lab Time: Tuesday 2:40-4:30***

***/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Title of Program\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\****

***Author: Date of Work:***

***Design: Provide an general overall description of the program***

***Input:***

***Process:***

***Output:***

***\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/***

**Assignment:**

1. ***(Save this file as* A3-1.cpp)***.* Write a program to calculate the freight charge for a shipping company based on the weight of the package(s) being shipped. Prompt the user for the total weight of the package(s) to be shipped. Calculate the freight cost based on the following criteria:
   * + 1. ***If the weight is 4 pounds or less the cost is $3.50.***
       2. ***Each additional pound costs $1.27.***

Display the weight of the package(s) and the freight charge for shipping. ***(Hint: Use appropriate formatting and symbolic constants.)***

***Sample I/O:***

**Please enter the total weight of the package(s): 12.25**

**The freight charge for shipping 12.25 pounds is $13.98.**

* Submit **A3-1.cpp** via email to clarenceb@uca.edu.

**CSCI 1470 – Fall 2015  
  
Lab 3 Out-of-class Assignment  
Due Date: Monday 09/14/15 @ 11:00PM**

**Topic:** Formatting, Symbolic Constants, Selection (***if-else*** statements, ***chained if-else***)  
**Reading:** Ch. 3 pp. 113-123, Ch. 4 pp. 163-210

Submit all source codes (\*.cpp) at the same time via email to clarenceb@uca.edu

***\*Note: Please include appropriate comments at the top of the program***

**Assignments:**

1. ***(Save this file as* B3-1.cpp)** Write a C++ program to read an employee’s four digit ID and the number of hours worked in one week. Compute the weekly pay based on the following criteria:
2. If the number of hours worked is less than or equal to 40, the pay rate is $12.40 per hour.
3. If the number of hours worked is greater than 40, the pay rate is 12.40 for 40 hours, plus $18.60 for each additional hour worked over 40 hours.

Display the employee’s ID, hours worked, regular pay, overtime pay, and total pay. ***Use appropriate formatting and symbolic constants.***

***Sample Input/Output:***

Please enter the employee’s ID and press <Enter>: 4852

Please enter the total hours worked and press <Enter>: 45.5

**Employee ID: 4852**

**Hours Worked: 45.50**

**Regular Pay (40 hours @ $12.40): $ 496.00**

**Overtime Pay (5.5 hours @ $18.60): $ 102.30**

**Total Pay: $ 598.30**

* Submit **B3-1.cpp** via email to clarenceb@uca.edu.