

CSC 175 – Winter 2013
Assignment 2 – Due by 11:59pm on Feb 14, 2013 (Thursday)

IMPORTANT:

(1) A program that cannot be successfully compiled will fail the assignment regardless how many functionality or how robust your program may be. Therefore, it is recommended that you program incrementally such that you save into different versions before you compile after adding more features.

(2) Please be reminded that you are expected to work individually on all assignments. The sharing of any solution in any form is not acceptable and is considered plagiarism, which will not be tolerated. Please refer to Academic Misconduct in the Course Schedule or the university policy for more details.

Objective:

The primary purpose of this assignment is to synthesize the various concepts learned in Chapters 1 and 2 such that you demonstrate a working knowledge of variable declarations, input and output, use of data types and expressions, and control of flow of the program.

Problem:

Write a program to process weekly employee time cards for all employees of an organization. Each employee will have three data items: an ID number, the hourly wage rate, and the number of hours worked during a given week. Each employee is to be paid time-and-a-half for all hours worked over 40. A tax amount of 3.625 percent of gross salary will be deducted. The program output should show the employee's number and the net pay for the employee.

The program should allow the user to continuously calculate employee payroll until the user decides to quit. At the end of the program execution, display the total payroll and the average payroll for the week.

Your program should run properly with, at least, the following data set (i.e. you should run your program with these test data to make sure it runs correctly before submitting your program):

<u>Employee ID</u>	<u>Hourly Rate</u>	<u>Hours Worked</u>
1001	15.75	35
1720	15	45.75
1545	14.5	52
750	16.25	40
1645	14.75	48.5

Style Requirements

Your program should follow reasonable rules of style. I am particularly looking for:

- Meaningful naming of variables and constants
- Proper declaration of variable data types
- Proper indentation: blocks of code should show correct indentation.
- Proper commenting on blocks of code
- Proper spacing: make good use of spaces to improve readability

Deliverables and Submission

- Name your main program file **A2-LastName.cpp**. (LastName is your own last name)
- Submit on Blackboard the source file (.cpp) for this assignment and this assignment's marking template filled with your name.

Other Requirements

At the beginning of your source code, you should include a comment block to include your name, the compiler/IDE you used, the due date, and the program description, something like the following.

```
/******  
* Name:           Firstname LastName           *  
* Program:        CSC 175 Assignment 2          *  
* Due Date:       Feb 14, 2013                 *  
* IDE:            *                             *  
* Program function: (a description of what it does) *  
*****/
```