**Homework #3**

**Due Wednesday, March 7**

Write a program that produces a bill for a repair service, using the following charge formula:

* The *bill* includes *subtotal*, and *tax charge*.
* The *subtotal* is the larger of the *repair charge* or $95.
* The *repair charge* is the sum of *parts cost* and *labor charge*.
* The *labor charge* is $1.50 for each *minute of labor* needed for the repair.
* The *tax charge* is 8.25% of the subtotal.

Your program should input the *parts cost* and the *minutes of labor* for the repair. It should exit with a reasonable error message if any of the input is inappropriate. Otherwise, it should output the final bill. The executable program **Gold03.exe** demonstrates what your program should do.

Note: Do not do math “in your head”! Use the non-example values I gave above (they will be constants), and program calculations from those.

You should turn in (in a pocket folder): this assignment/grading sheet (write your name in the space below), your statement of completeness, a structure chart of your program (matching your “outline” comments), and a full printout of your program. All documents should be appropriately labeled. You should also place a “soft” (electronic) copy of your main.cpp file (in a properly named folder) into the private folder of your FTP site.

**Grading Sheet, Homework #3**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Criteria Possible Achieved**

Program files in private FTP folder 3

Statement of Completeness 5 \_\_\_\_\_\_\_\_

Structure Chart 5 \_\_\_\_\_\_\_\_

Clear Indentation and Spacing 5 \_\_\_\_\_\_\_\_

Internal Code Comments 5 \_\_\_\_\_\_\_\_

Identifiers 5 \_\_\_\_\_\_\_\_

Appropriate Use of Statements & Expressions 5 \_\_\_\_\_\_\_\_

Complete/No Errors 5 \_\_\_\_\_\_\_\_

Output Format and Correctness 5 \_\_\_\_\_\_\_\_

Presentation 3 \_\_\_\_\_\_\_\_

Total: 46 \_\_\_\_\_\_\_\_

Notes: