**COSC 1315**

**Fund of Programming**

**Peterson**

**Lab #3 – Dash Cell Phone Company Billing (100 Pts) Extra Credit: (10 Pts)**

**Step 1:**  Write pseudocode for a program for the Dash Cell Phone Company that accepts data about text messages for customers.  They charge customers a basic rate of $5 per month to send text messages.  Additional rates are as follows:

* The first 60 messages per month, regardless of message length, are included in the basic bill.
* An additional five cents is charged for each text message after the 60th message, up to 180 messages.
* An additional 10 cents is charged for each text message after the 180th message.
* Federal, state, and local taxes add a total of 12 percent to each bill.

Display the month-end bill before the taxes are added and again after the taxes are added.

Use the modular approach. You should have 3 modules. Each module should have separate pseudocode.

main() – program driver and main loop

housekeeping() – Display purpose of program

endOfJob() – terminate program

Each module should use the parameters as indicated above.

**Step 2:**  Desk check your pseudocode using the following test data:

Case: Case 1 Case 2 Case 3 Case 4 Case 5

Number of texts: 30 60 100 181 270

**Step 3:** Convert your pseudocode into a C++ program and test it with the above test data.

**Step 4:** When you have finished this lab, submit BOTH your design (pseudocode) and your desk check via the assignment link. Optionally submit your C++ program.