**COSC 2336.S70**

**PROJECT**

**ASSIGNMENT:**

Create a program that will read statements written to match the following syntax, build data structures to contain the necessary information to use in evaluating the expressions, and evaluate the expressions as necessary. The statements will be found in a file that will be passed to the program via a command line.

**STATEMENTS:**

Valid statements are of one of the following three forms:

1. EVAL;
2. VALUE Variable Sign Constant ;
3. EXP Expression ;

Where:

Variable is of the form: Vnn where nn ranges from 00 to 99.

Sign is optional and is either a plus ‘+’ or minus ‘-‘.

Expression is a mathematical expression using variables and/or constants (optional signs) separated by math operators “+-\*/” and optionally using parentheses “()” to contain an operator and two operands.

Statements may extend over more than one line.

**TURN IN:**

1) A printed listing of all of the .cpp and header files that you created.

2) A copy of the files in the project folder as created by Visual Studio. These may be “zipped” placed on a 3 ½ inch floppy, a CD, or emailed to the instructor with the subject line “COSC 2336.S70– Project”.

**DUE:** 8 December 2011 (late work cannot be accepted)