# CS370 – ASSIGNMENT #3

## NAME: Kostiantyn Makrasnov

**GRADE:**

|  |  |  |
| --- | --- | --- |
| **CATEGORY** | **POINTS** |  |
| EX03\_01 |  | 35 |
| EX03\_02 |  | 65 |
| EC03\_01 |  | 100 |
|  |  |  |
| **TOTAL** |  | 100 |

## EXERCISES:

**EX03\_01 –** Complete Exercise 2.6, page 107: Build an ad hoc scanner for the calculator language (Figure 2.25, page 91). You’ll find pseudo-code in Figure 2.5, page 56. As output, have it print a list, in order, of the input tokens. For simplicity, feel free to halt in the event of a lexical error.

Completed in -> Scanner.cpp

Run through -> Source.cpp

**EX03\_02 –** Complete Exercise 2.21, page 110: Build a recursive descent parser for the calculator language (Figure 2.16). As output, have it print a trace of its matches. The pseudocode is in Figure 2.17. You will need to use your scanner to feed tokens into your parser.

Completed in -> Parser.cpp

Run through -> Source.cpp

**EC03\_01 –** Have your parser output C++ code that can be compiled into machine code, to execute the program you’re parsing

Completed in -> Parser.cpp

Run through -> Source.cpp

Translated C++ file gets written to -> “Adhoc-Scanner-Parser/translation.cpp”