CS 4308 - CPL

Mod_1 Assignment

The goal of this assignment is to provide a general introduction to the evaluation of programming languages and simple grammar concepts. Include the questions/problems in your answers.

1. Compiling and running programs on the command line.
    a. **Write Programs in any language and any IDE that you prefer such as Java, C++, Script programming (Python, JavaScript), etc**., that **computes the area of a trapezoid.**
    b. **In the report,**
        - Investigate the general principles and goals of a system programming language and provide two or three examples of such languages.
        - Provide a brief report, including screenshots of your program (s) output.

2. **Problem Set #4 - Page 163 from the Textbook**
   Rewrite the BNF of Examples 3.3 and 3.4 (*from the chapter, page 125*) to give + precedence over * and force + to be right-associative.

3. **Problem Set #7d - Page 163 from the Textbook**
   Using the grammar on Example 3.4, show a parse tree and a leftmost derivation for each of the following statements. **7d. A = B * (C * (A + B))**

Deliverable:

1) Please provide your source files (such as .js, .py, etc.).

a. **Submit** a report for programming problems & including Problem Sets #4 and #7d.
b. **Report** guidelines are attached. If any sections are not applicable, simply skip them.

2) **Submit** a compressed .zip file of source files, problem sets, etc., via the Assignment 1 Dropbox at http://d2l.kennesaw.edu/ on or before the due date.