Homework 1: Lexical Analyzer * CS 421 Compiler Design and Construction

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With reference to the **Lexical Analyzer** implemented for the language TUPLE, let us, the programmers, elucidate some of the assumptions taken, conventions followed and references used. They are as follows:

- Some modifications were made to the given lexical specification specified on **pg.2** of the assignment write-up. These changes are with respect to the **Keyword** and **Data Types** categories upon examination of the test files, it was seen that the common language keywords and data types, print, return and str were not specified within the lexical specification thus, they were catered to as such per our own prerogative.
- With reference to entries within the symbol table, the decision was made not to include numeric constants such as: 2.3, -5, 10 etc. Per the current implementation of lexical analyzer, the symbol table only records identifiers.
- As of now, all arithmetic operations are dealt with as part of a single category. Delineation of arithmetic operators with respect to precedence¹ is not implemented.
- This reference proved useful when starting out with implementation of the analyzer.

^{*}This document is with reference to Part 2 of the assignment.

 $^{^{1}}$ As discussed in the lecture session of 9^{th} September.