**Class Number:** CECS 444-01

**Project Name:** Parser

**Team Name:** CMP

**Team Members:** Dane Dinh, Sukriti Agarwal, Mina Messiha, Alex Tran

**Introduction:**

The “Parser” project is the second part of a bigger semester-long project.

This project is a Java implementation of an A5 Language Parser.   
The objective of this assignment is to write an LL predictive parser. This parser uses the input from the previous part of the project (Lexer) and consists of three parts. The parts are the parser machine, LL parse table for the involved grammar, and the prediction stack.

**Contents in the .zip submission:**The “444-p1\_CMP.zip” folder contains the following files:

1. Readme.txt
2. Lexer.java
3. Lexer.class
4. A5-sample-1.acod
5. A5-sample-2.acod
6. A5-sample-3.acod

**External Requirements:**JDK 8.0 or higher

**Set up and Installation and Execution:**

1. Extract the contents of the 444-p1\_CMP.zip file.
2. Go to the terminal (on Ubuntu) or the Command Prompt (on Windows).
3. Navigate to the folder: 444-p1\_CMP
4. The folder contains   
   To run the program, execute by typing the following commands:
5. Directory location…\Lexer\src>
6. Directory location…\Lexer\src> javac ParserMain.java
7. Directory location…\Lexer\src> java ParserMain A5-sample-p1.alex
8. When done with the execution, enter “exit”.

**Sample Invocation and Results to See:**

**Features:**

1. **Included:**
2. **Missing:**
   1. Error handling for the user.
   2. Checking for the correct or incorrect input file formats from the user.
   3. Checking for case sensitive characters.

**Bugs: (if any)**

None.