**CS323 Documentation**

About 2 pages

1. **Problem Statement**

*As a continuation of our Lexical Analyzer, we must create a Syntax Analyzer with any top-down parser method. We must generate parse trees for the tokens of a given file.*

1. **How to use your program**

*We have provided an .exe file by the name of main. Our program can be simply run by double-clicking that file. Alternatively, you can open up your terminal, and find your way to the assignment2 directory where you can run the command './main' or 'python3 main.py'. When running, the program will prompt you with the choice to choose a folder by entering the number that's shown on the file, re-search the directory for txt files, clear all txt output files, or quit the program. When choosing a file to run the Syntax Analyzer on, a new file will be created named the same as the chosen file, but ending in \_SA\_out.txt rather than .txt*

1. **Design of your program**

*We used a top-down parser called Recursive Descent Parser in which the program starts at the highest level of syntax and descends through our developed production rules recursively, until reaching a final token.*

1. **Any Limitation**

*None*

1. **Any shortcomings**

*None*