CS 335 Milestone 1

March 4, 2024

Tools Used in the Project

- **Flex** for constructing the lexer.
- **Bison** for developing the parser.
- **Graphviz** for generating visual representations of the Abstract Syntax Tree (AST).
- **Git** for version control and collaborative work.

Compilation Instruction

- We used lexer.l file for lexer in flex
- The command we use is flex lexer.l to compile the lexer.
- We used parser.y file for parser in Bison
- The command we use is bison -d parser.y to compile the lexer.
- We used g++ -o ast lex.yy.c parser.tab.c -lfl to compile and combine both commands
- We used ./ast -input testinput.py -output out.dot to output out.dot file for generating AST.
- We used ./string out.dot out.dot to regenerate out.dot to remove string errors that came due to double quotes.
- We used dot -o out.pdf -Tpdf out.dot file to generate out.pdf for AST.
- We used all this commands in generate_ast.sh file to execute the whole program.
- We used ./generate_ast.sh testinput.py to generate the AST for testinput.py input file.

Execution Details

- We should run the generate_ast.sh script file with input file path as argument.

- The Generated Ast will be stored in out.pdf