Project 2: Semantic Checker and Code Generator
COP4020: Programming Languages
Trent Wells

Running:

To run this program in Linux follow these steps-

1. Open a terminal and navigate to the directory holding the project
2. Run "make" in the terminal
3. Use the command "./main all" to run all files (a1-a8)
4. Use the command "./main inputFilesP2/a1" to run a specific file (to run a specific file, a directory must be specified)
5. RPN output will be stored in .rpn files

Error Messages:

1. "Expected 'begin' at the start of the program" - This happens when a 'begin' token isn't detected at the start of the code.
2. "Expected 'end' after statements" - This happens when a 'end' token isn't detected at the end of the code.
3. "Expected '.' after 'end' - This happens when '.' isn't found directly after the 'end' token.
4. "Expected statement" - This happens when a statement is expected.
5. "Expected identifier" - This happens when an identifier is expected.
6. "Expected '=' after identifier" - This happens when an '=' isn't found after an identifier.
7. "Expected ';' after expression" - This happens when a ';' isn't found after an expression.
8. "Identifier cannot end with an underscore" - This happens when an identifier ends with an underscore.
9. "Identifier cannot contain consecutive underscores" - This happens when an identifier contains consecutive underscores.
10. "Unmatched parenthesis in expression" - This happens when an opening parenthesis doesn't have a matching closing parenthesis.
11. "Illegal redefinition 'identifier'" - This happens when an identifier is redefined.
12. "Undefined variable 'identifier'" - This happens when an identifier hasn't been defined but is attempted to be used.