**CS 323 Assignment 1 Documentation**

1. **Problem Statement**

Write a lexical analyzer using a FSM for at least identifiers, integers, and real numbers. You should write a function lexer() that returns a token when it is needed. It should return a record of the token and the lexeme. The program should read a file containing source code, generate tokens, and print out the tokens and lexemes.

1. **How to use program**

1. Open up your terminal.

2. Navigate to folder containing source code.

3. Compile using “g++ -o lexer lexer.cpp”

4. Run the program using “./lexer”

5. Input file name and press enter.

1. **Design of program**
2. **Limitations**
3. **Shortcomings**