Lexical Analysis Assignment

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1 Compilation Commands

1. flex FILENAME.l

2. g++-11 –std=c++20 -o executablefile lex.yy.c

    (a) You need to install the g++ version 11.(because range::find supports in 10+ version)

        i. sudo add-apt-repository -y ppa:ubuntu-toolchain-r/test
        ii. sudo apt install -y g++-11
        iii. g++-11 –version

3. ./executablefile < testfilename

2 Problem1

Lexical specification

Lexical word	Defination
KEYWORDS	Given
WHITE SPACE	space character, horizontal tab character, form feed character, and line terminator characters
OPERATORS	Given
DELIMITORS	Given
LITERALS	string and numeric
IDENTIFIERS	beginning a letter, followed by any num- ber of letters or digits

3 Problem2

Lexical specification of JAVA

Lexical word	Defination
KEYWORDS	In documentation
WHITE SPACE	space, horizontal tab, form feed, and line terminator
OPERATORS	In documentation
SEPARATORs	In documentation
LITERALS	Integer, FloatingPoint, Boolean, Character, String, TextBlock, NullLiteral
IDENTIFIERS	beginning a letter, followed by any num- ber of letters or digits

[1] [2]

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[1]Proper commenting is done in code to understand implementation

[2]Github repo : https://github.com/shubk4/compilers