**VENESSA CHEGE 99927 ICS4B**

**Graphical user interface, text, application

Description automatically generated**

**LAB 2: Describe the output of a scanner**

A picture containing rectangle

Description automatically generated

**Output**

The scanner goes through each character matching it to patterns defined by regex rules. Whenever it encounters whitespace and special symbols, it concludes the word is complete and hence matches it to a pattern. Using the rules defined in lexical\_analyser.cpp, each word was matched to a predefined pattern.

Digits are numbers (29, 05, 22) , lowercase and uppercase letters are identifiers(Venessa, Chege, born, age), all arithmetic operations as operators(-, /) and all parenthesis, asterisk and commas as separators(, , ) ).