Lab 1 Compiler

- 1. Lex Version = flex 2.6.4
- 2. Working Platform = Ubuntu 22.04.4 LTS
- 3. Execution Method

First, you need to Install flex if you don't have it, by using "sudo apt-get install flex", then make a "StudentID.1" file as the Lex Pascal Scanner and a "makefile" file to run the file, then enter "make all" in the terminal, then input "./a.out < inputfile.pas". The result will be printed next.

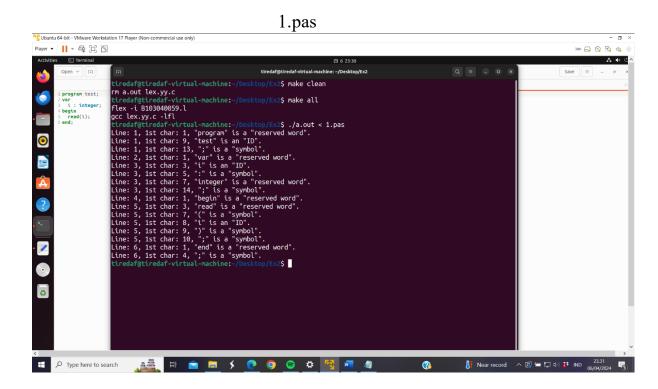
4. How I Deal With an Issue

I deal an issue in the code by searching google for a hint, I also watch youtube video to learn more about regex. I also use the website "regexr.com" to make the syntax and debugging the regex I've created.

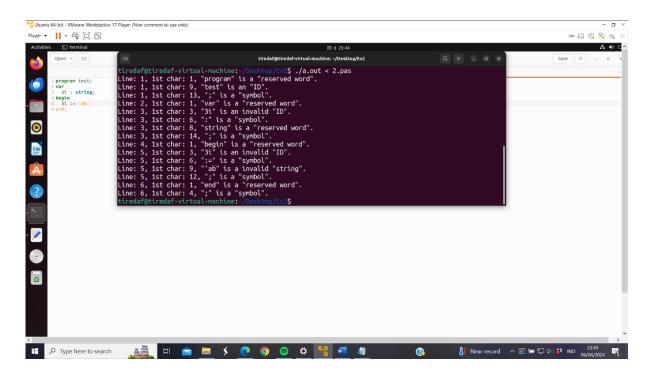
5. The Problem I Encountered While Writing The Assignment

The first problem is when the identifier have a number in it, then the interger can match it, it make the identifier divided into two different entities. I'm pretty confused with the symbol like, ?, +, (), {}, I don't know when the right time to use it but at the end I can figure it out. The last problem is the comment line, it's hard to make the syntax, I spend a lot time here.

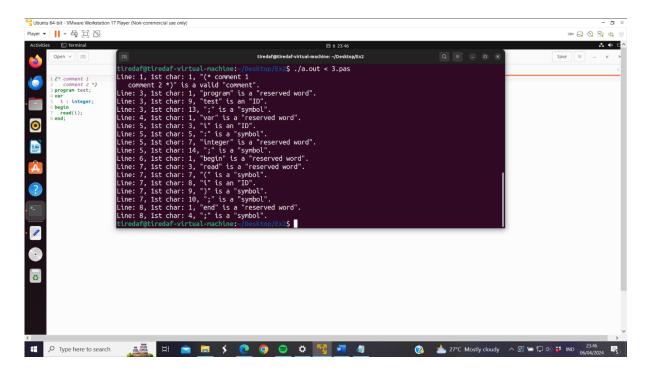
6. The Results of All Test Case



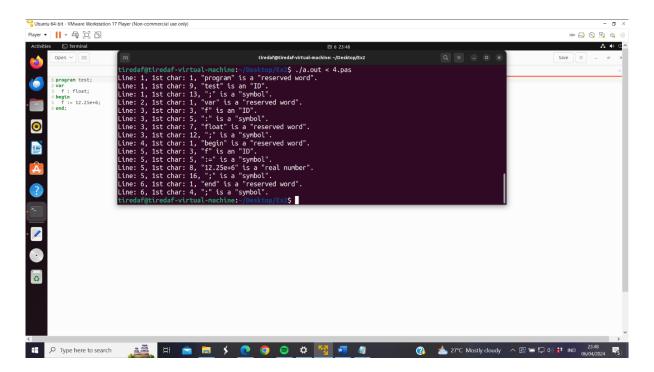
2.pas



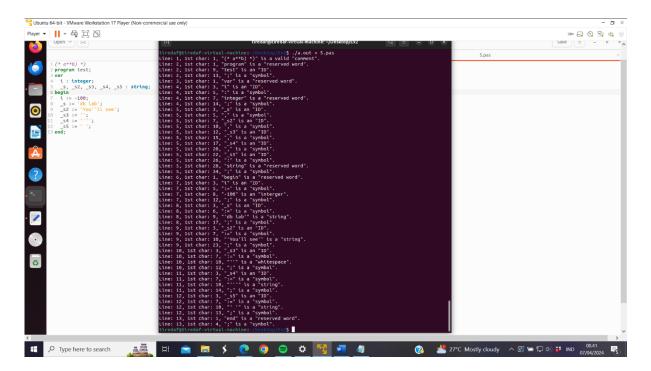
3.pas



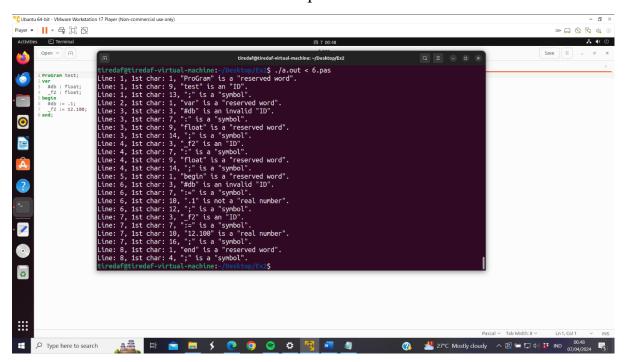
4.pas



5.pas



6.pas



7. Pas

