19CSE401 - Compiler Design

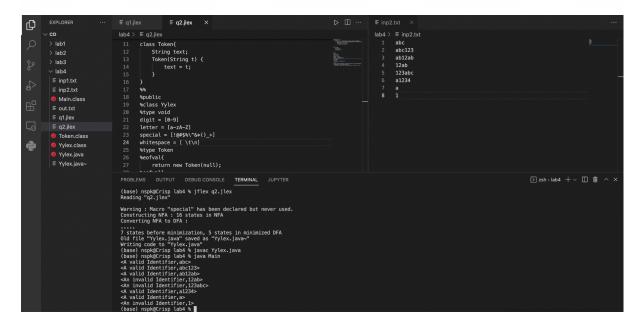
JLex Assignment

Lab sheet-4

Done By:

N Sai Pavan Krishna AM.EN.U4CSE19347 A. Try the following JLex Program to recognize a 5 letter word which starts with P/p and ends with T/t.

B. Try the following JLex Program to recognize an identifier which starts with a letter.



- 1. Write JLex code for the following and output the token of the form **<token_name**, lexem>
 - i. To recognize any Java identifier (a sequence of one or more letters and/or digits and/or underscores, starting with a letter or underscore. Token Name is **ID**
 - ii. To recognize any Java identifier that does not end with an underscore. Token Name is ID
 - iii. To recognize the keyword "if" in addition to identifiers. (Place the rule of "if" above the rule of identifier.) Token Name is **IF**
 - iv. Move the "if" rule below that of identifier rule and check the effect on your input. Do you see any difference in the output?
 - v. Add the rule for other keywords, **for**, **while**, **do** and all types of parentheses in a similar fashion and try with several inputs to convince yourself of its working.
 - vi. To recognize the integer constant. Token Name is INT_CONST
- vii. To recognize the floating-point constant. Token Name is FLOAT_CONST
- viii. To recognize comments of the type "// xxxx". Token Name SINGLE_COMMENT
- ix. Add rule(s) to recognize comments of type /* xxxx */. Token name MULTI_COMMENT.

