

Roll No: 17

## 6<sup>th</sup> Assignment

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GURUKUL	Page No.
Date	

TEA

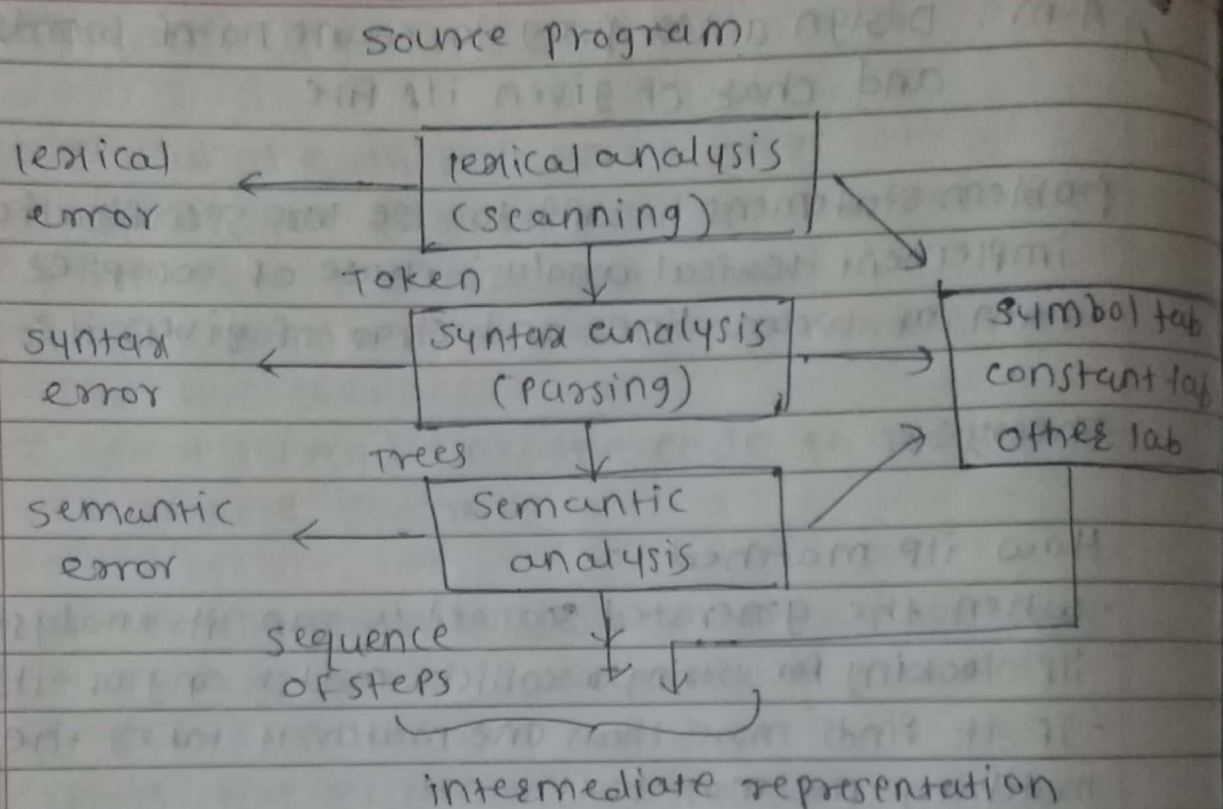
Aim: Design a lex prog to count no of words, lines and char of given ilp file

Problem statement: WAP to use lex specification to implement lexical analysis phase of compiler to count num of words, lines and char of given ilp file

Theory:-

How ilp matched:-

- When the generated scanner is run, it analyses its ilp looking for strings which match any of its pattern
- If it finds more than one match it takes the one matching the most text
- If it finds 2 or more match of the same len, the rules tested first in the flex ilp file is chosen
- Once the match is determined the text corresponding to the match is made available in the global character ptr, "yytext" and its length in the global integer, "yyleng"
- The action corresponding to the matched pattern is then executed and then the remaining ilp is scanned for another match
- If no match is found then the default rule is executed the next char in ilp is considered matched and copied to std out



### Conclusion:-

Thus, we have studied lexical analyser and implemented an application for lexical analyser count total number of words and line etc