School of CET

System Software Compiler Design

Assignment No.5

BTech CSE

Title: Write a program using Lex specifications to implement lexical analysis phase of compiler to generate tokens of a subset of the C program.

Aim: Generate lexical analyzer for C language using LEX tool.

Objective:

1. To understand the lexical analysis phase of the compiler.
2. To understand the scanner for a subset of C.

Theory: Explain the following

1. Token lexeme and pattern.
2. Use of regular expression (RE) in specifying lexical structure of a language.

FAQ's

Q.1 Format of lex specification and execution steps of file. (*.l)

Q.2 Explain with examples

   yylex()

  yywrap()

 yytext()

Input: Subset of C language.

Output: Sequence of tokens generated by lexical analyzer and Symbol Table.

Platform: Linux/Windows

Conclusion: Implemented scanner for C.