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## **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 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.
3. Format of lex specification and execution steps of file. (\*.l)

**Input:** Subset of C language.

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

**Platform:** Linux/Windows

**Conclusion:** Implemented scanner for C.