**19CSE401 – Compiler Design**

**Evaluation Lab #1**

By taking a C program (of your own) as a sample input, design the lexer grammar and construct a lexer using ANTLR.

[30 Marks][CO1, CO2, CO3][BTL 4]

Rubrics for evaluation

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| --- | --- |
| Total marks | 30 Marks |
| Lexer Grammar Construction | **10 Marks:**   1. Regular expression to identify identifier, operators, keywords, special symbols, integers, floating numbers, comment line, register number, quoted strings and single characters. (10 Lexical units x 1 Marks = 10 Marks) 2. Marks = number of regular expression x 1 Marks. |
| Output Generation | **20 Marks:**   1. For correct output to categorize all 10 lexical units – 20 Marks. 2. Marks = number of correctly categorized lexical units x 2 Marks. |