

Lab Practice Session # 2
Course Title: Compiler Construction Lab (CSTE-3110)
Date: 20/05/2024

1. Write a Lex program that recognizes integer, floating-point numbers, and floating-point number with exponentiation (use transition diagram).

Input: Enter a number: 12	Output: 12: Integer number
Enter a number: 12.23	12.23: Floating point number
Enter a number: 12.23E4	12.23E4: Floating point number with exponentiation
Enter a number: 12.23E-4	12.23E-4: Floating point number with exponentiation
Enter a number: abcd	abcd: Not a number

Assignment on Syntax Analysis (Report # 1)

2. Write a Lex program that counts characters, words and lines in a given input.

Input: Welcome to Compiler Construction Lab	Output: Character: 35, Word: 5, Line: 2
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3. Write a Lex program that returns token type in a given input.

Input: int a=2+b;	Output: int: Integer a: Identifier =: Assignment Operator 2: digit +: plus b: Identifier ;: Semicolon
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Report Submission Deadline: 24/09/2024