

Date : 27-01-2019

Compilers Lab

Through this exercise, students will learn how to use the lexical analyzer generator "flex" and the parser generator "bison". Both of these tools are widely used in compiler front-end development.

1. Write an input flex specification for a scanner that will count the number of numbers appearing in the input. Count the number of integers (without a decimal) separately from the number of floating point numbers (with a decimal, and at least one digit on either side of the decimal).
2. Write an input flex specification for a scanner that will capitalize all the identifiers in the input program.
3. Write an input flex specification and grammar specification to implement a simple calculator.

The evaluation will be in the week starting from 18-01-2019.