CS6109 - COMPILER DESIGN - LAB Week 4 - 14.08.2023

(Exercises)

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1. Write a Lex program to perform the following.
a. Reversing each line in a text file
  Input:
         HAI hello
         example
         good
          alpha NUMeric
b. Matches one or more alphanumeric characters.
     Input:
          alphanumeric
         aq@
         hai123
         123HELLO
         example@2022
         #good#
          2
         В
          (a
c. Matches the string starts with "b" followed by one or
  two occurrence of "an" and ends with zero or one
  occurrence of "a".
     Input:
         bana
         banana
         banaaa
         bananana
         banaa
         ban
         ba
         banan
```

HelLo GoOD AlphA EXamPlE hAi An

2. Write a Lex program to identify the tokens for the given input expression.

$$a.c = ++a + ++b$$

$$b.c = a ++ + ++b$$

Note:

- Consider the inputs for each program from text file.
- Multiple input files can be considered.