CS335A: Assignment-1

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Steps to run the program

1. CSE IITK Language

   ```
   flex cseiitk.l
   g++ -o cselexer lex.yy.c
   ./cselexer filename
   ```

2. Java

   ```
   flex java.l
   g++ -o javalexer lex.yy.c
   ./javalexer filename
   ```

The output will be directed to output.csv in the desired format.

Implementation details and assumptions

1. CSE IITK Language

   - For handling **..** operator, I took the whole token comprising of following patterns -
     (i)$(Literal) + .. + (Literal)$
     (ii)$(Literal) + .. + (Identifier)$
     and then extracted the 3 tokens from it.

   - For handling **.** operator, I took the whole token comprising of following patterns -
     (i)$(Identifier) + .. + (Literal)$
     (ii)$(Literal) + .. + (Identifier)$
     and then extracted the 3 tokens from it.

   - I have hardcoded to handle the error of the form .[0-9]+

   - I have treated signed integers by treating it as (-) operator + Literal.

2. Java

   - I have treated signed integers by treating it as (-) operator + Literal.