ToTopTopple

**1 Sentence Description**

Write both a table-driven and code-only lexer to recognize the tokens "to" and "top" and an identifier starting with a lowercase letter followed by 0 or more lowercase letters or uppercase letters or digits or underscores or dashes.

**Full Description**

Using the sample IfLexer (on AsULearn) and our classroom discussions, create a "combo-FSM" for the set of tokens and then build two lexers. One of the lexers uses a table-driven approach and the other uses a "state switch ladder" explicitly coded approach.

**Deliverables**

* On a piece of paper, draw out the following FSMs:
  + 3 FSM diagrams, one for each token:
    - to - lowercase t followed immediately by lowercase o
    - top - lowercase t followed immediately by lowercase o followed immediately by lowercase p
    - name - sequence of 1 or more characters that begins with a lowercase letter and is immediately followed by 0 or more lowercase letters, uppercase letters, digits, underscores, or dashes
  + 1 NFA that is the result of combining the 3 FSMs above
  + 1 FSM that is a deterministic version of the NFA above resulting from following our algorithm construction process
* Upload a picture of your FSM drawings (can all be in one pic or several)
* Zip file of your code
  + Your Main should take inputs from the command line arguments and exercise both lexers (see sample)