Lab4

github: <https://github.com/alexbota2ooo/LFTC>

Attributes:

\_\_Q = states

\_\_S = transitions

\_\_E = alphabet

\_\_F = final states

\_\_q0 = initial state

Methods:

readfile() – method called in constructor and reads line by line. it adds the inputs to the corresponding sets.

Line 1 contains the states with form : “Q” “=” states

states = {state}

state=letter{positive\_int}

letter=a|b|..|z|..|A|..|Z

positive\_int=0|non\_zero\_digit{positive\_int}

non\_zero\_digit=1|..|9

Line 2 contains the alphabet: “E” “=” elements

elements = {elem}

elem = a|b|..|z|A|..|Z|0|…|9

Line 3 contains the final states: “F” “=” states

Line 4 contains intial state “Q0” “=” state

Line 5..n contains productions with form: “(“state elem”)” “=” state