CS112 (LFA): Lab 1

February 18, 2021

Exercise 1. *Implement a library/program in a programming language of your choosing to load and validate the following input file:*

```
#
# comment lines (skip them)
#
Sigma:
      word1
      word2
      ...
End
#
# comment lines (skip them)
#
States:
      state1
      state2
      state3,F
      ...
      stateK,S
      ...
End
#
# comment lines (skip them)
#
Transitions:
      stateX,wordY,stateZ
      stateX,wordY,stateZ
      ...
End
```

Sections can be in any order. By validation we ask to check that transition section has valid states (first and third word) and valid words (word two). Note that states can be succeeded by "F", "S", both or nothing. "S" symbol can succeed only one state.

Exercise 2. *Familiarize yourself with Python Notebooks if python is the language of choice.*

Exercise 3. *Familiarize yourself with Latex (overleaf.com).*