

Lab 4 – Andreica Daniel-Vladut

GitHub repository: <https://github.com/Andreica-Daniel/FLCD/tree/main/Lab4>

Classes and files structure

FiniteAutomata class:

- Initialize a finite automata having states, alphabet, initial_state, final_states, transitions.
- Methods:
 - `is_dfa(self)` – check if the FA is deterministic or not
 - `is_accepted(self, sequence)` – check if a sequence is accepted or not
 - `get_line(line)` – return the needed parts from every line in a file
 - `read_from_file(fileName)` – read the information from a file

Console class:

- Methods:
 - `read_fa(self)`
 - `print_all(self)`
 - `print_states(self)`
 - `print_alphabet(self)`
 - `print_transitions(self)`
 - `print_initial_state(self)`
 - `print_final_states(self)`
 - `dfa(self)` – print if the FA is deterministic or not
 - `is_accepted(self)` – print if an input sequence is accepted or not
 - `run(self)`
- Call the run method in order to run the program.

