

# Lab 4

-Korodi Andreea Cristina-

Git: <https://github.com/DeeaKr/FLCD/tree/develop/lab4/src/com/company>

Write a program that:

1. Reads the elements of a FA (from file)
2. Displays the elements of a finite automata, using a menu: the set of states, the alphabet, all the transitions, the set of final states.
3. For a DFA, verify if a sequence is accepted by the FA.

## **Deliverables:**

1. FA.in - input file (*on Github*)
2. Source code (*on Github*)
3. Documentation. It should also include in BNF or EBNF format the form in which the FA.in file should be written (*on Moodle and Github*)

## **Representation**

The FA class contains:

1. A set of strings for all the states
2. A set of strings for the alphabet
3. A String for the initial State
4. A set of string for the final states
5. A HashMap with a pair<String,String> as a key and a list of Strings as a value, for the transitions.

Class diagram:

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