Assignment 5

Documentation

**Implementation**

* https://github.com/aalexcampean/flcd-labs.git

**Documentation**

* Finite Automata
  + A tuple of 5 (set of states, alphabet, set of transitions, initial state, set of final states)
  + Set of states
    - Represented as a List
  + Alphabet
    - Represented as a List
  + Set of Transitions
    - Represented as a List
  + Initial State
    - Represented as a String
  + Set of final states
    - Represented as a List
* When reading the lines in the file each represents one of the sets mentioned above (IN THAT EXACT ORDER)
* All lines are split by space and each set is created when reading
* Checking if a sequence is accepted by the FA:
  + Starting from the initial state, we parse the provided sequence and check if each character from the sequence matches at least one of the transitions in the FA