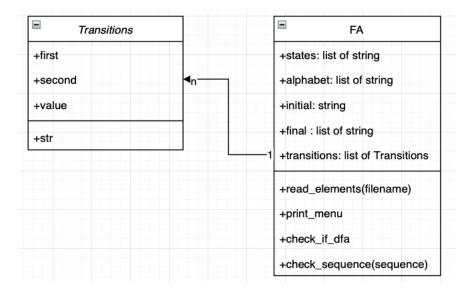
## https://github.com/tdrts/Labs FLC/blob/main/Lab 5/main.py

## **Class Transitions**

Overridden str method used for printing

## Class FA

- read\_elements method used in reading a FA from a file
- print\_menu method is used to print a menu allowing the user to display the set of states, alphabet, initial state, final states, set of transitions and to test a sequence
- check\_if\_dfa method for checking if a finite automata is deterministic or not
- **check\_sequence** method is used to verify if a given sequence is accepted by the automaton



```
<FA> ::= <|1> <|2> <|3> <|4> <|n>
<letter> ::= a|b|..|z|A|B|..|Z
<digit> ::= 0|1|..|9
<state> ::= <|etter> | <|etter> <|state> " " <|state | seq> |
<digit_list> ::= <|digit> | <|digit> " | <|digit> |
<transition> ::= <|ftate> ", " <|ftate> "," <|digit> |
<transition> | <|ftate> |
<|1> ::= <|ftate> |
<|1 > ::= <|ftate> |
<|
```