Documentation Lab 4

Github Link of FA.in: https://github.com/timoteicopaciu/LFCD/blob/main/Lab_04/FA.in

Github Link for code: https://github.com/timoteicopaciu/LFCD/blob/main/Lab_04/lab_04.py

```
class TableFA:
    """
    This class represent a FA as a table
    """
def readFAFromFile(self, filename):
    """
    Read a FA from a file
    :param filename: string, the name of the name where FA is stored
    :preconditions: filename must to be a string, representing a file name
    :postconditions: the FA object's attributes will be completed
    :return: none
    """
def print(self, x):
    """
    Print some attributes of FA
    :param x: char, representing an option in order to know what to return
    :preconditions: x must be a string, x is from A = {'1', '2', '3', '4'}
    :postconditions: a string is returned, representing an attribute as a string, or '' if x
is not in A
    :return: a string
    """
def isAccepted(self, sequence):
    """
    Verify if a sequence is accepted by the FA
    :param sequence: string, the sequence to be verified if is accepted by he FA
    :preconditions: sequence must to be a string
    :postconditions: return if the sequence is accepted or not
    :return: 'Is accepted!' or 'Is not accepted!'  or 'Is not a DFA!'
    """
```

EBNF of FA.in

fa ::= initialState finalStates alphabet states transitions

initialState ::= state

finalStates::={state,}state

alphabet::= "A" | "B" | ...| "Z" | "a" | "b"|...|"z"|"0" | "1" |...| "9"|”-”

states::={state,}state

state::=”q” number

number::= "1" |...| "9"{“0”|"1" |...| "9"}

transitions::= transition – *(nr of states * len of alphabet) times*

transtion:= ::={state,}state