

# **CS 419 Compiler**

## **Project Form**

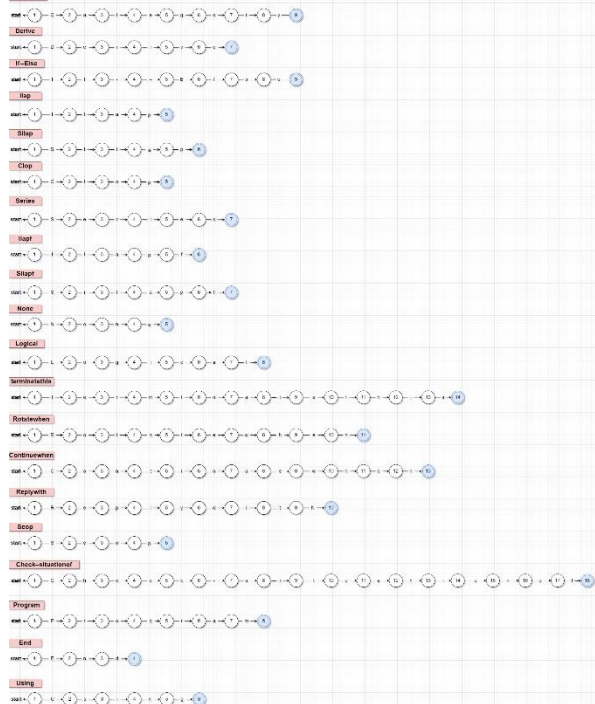
**Project Idea:** Project #2 Language

**Team Members NO#:** 2

| <b>ID</b> | <b>Name</b>                                | <b>Level&amp;<br/>Department</b> | <b>Section (Day<br/>from-to)</b> | <b>Role<br/>(Lead/Member)</b> | <b>Grade</b> |
|-----------|--|----------------------------------|----------------------------------|-------------------------------|--------------|
| 201900483 | Ali Ehab Ali<br>Yousef                     | LV3 CS                           | WED 2-4                          | Leader                        |              |
| 201900903 | Nehal Ashraf<br>Elsayd Elsayd              | LV3 CS                           | WED 2-4                          | Member                        |              |
| 201900902 | Nehad Ahmed<br>Ali                         | LV3 CS                           | WED 2-4                          | Member                        |              |
| 201900635 | Mouhamed<br>Ashraf<br>Abdelaziz<br>Ibrahim | LV3 CS                           | WED 4-6                          | Member                        |              |
| 201900654 | Mouhamed<br>Hasan Ali<br>Amen Hendy        | LV3 CS                           | WED 4-6                          | Member                        |              |
| 201900942 | Hesham<br>Mahmoud<br>Ibrahim               | LV3 CS                           | WED 2-4                          | Member                        |              |
| 201900916 | Nourhan<br>Mouhamed<br>Radwan              | LV3 CS                           | WED 2-4                          | Member                        |              |

# **Regular Expression, Finite automata and Conversion from RegX to NFA, NFA to DFA**

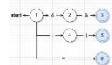
# Category



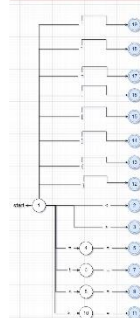
## Arithmetic Operator



## Logic operators



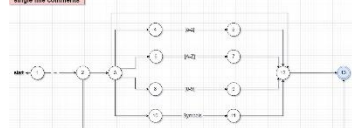
## relational operators & Assignment operator & Access Operator & Braces & Quotation Mark



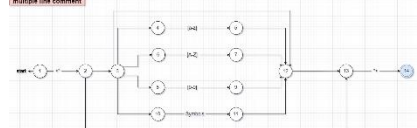
## Logic operators



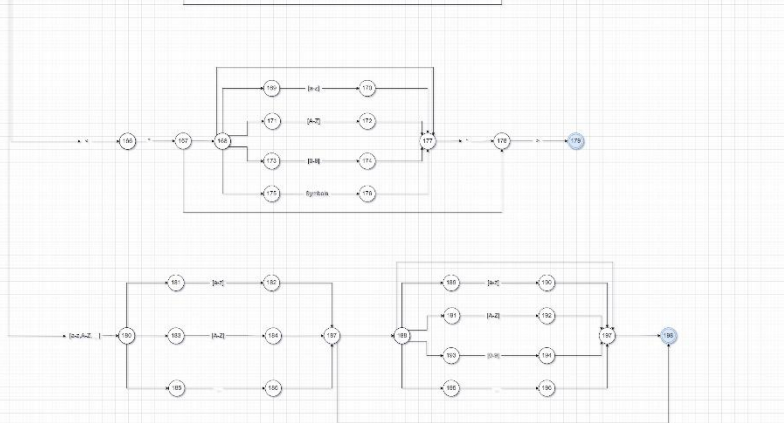
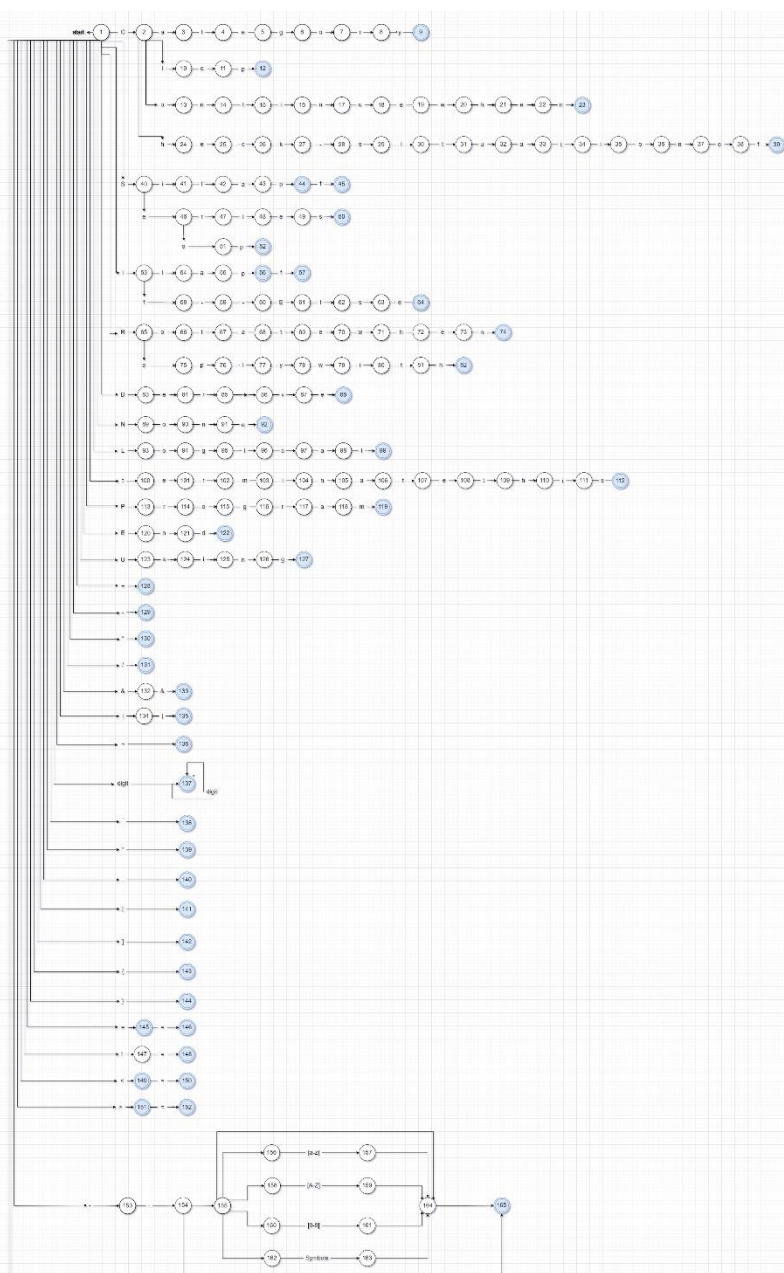
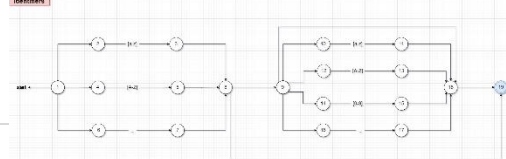
## single line comment



## multiple line comment



## Identifiers



## **Parse tree and Abstract syntax tree**