Regex and DFA

1) Number: [0-9]+(".”[0-9]+)?
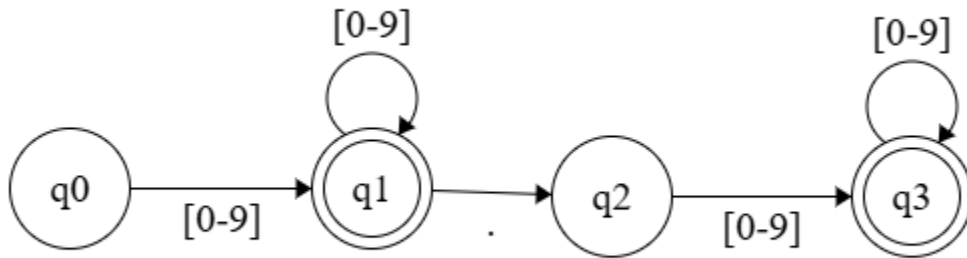
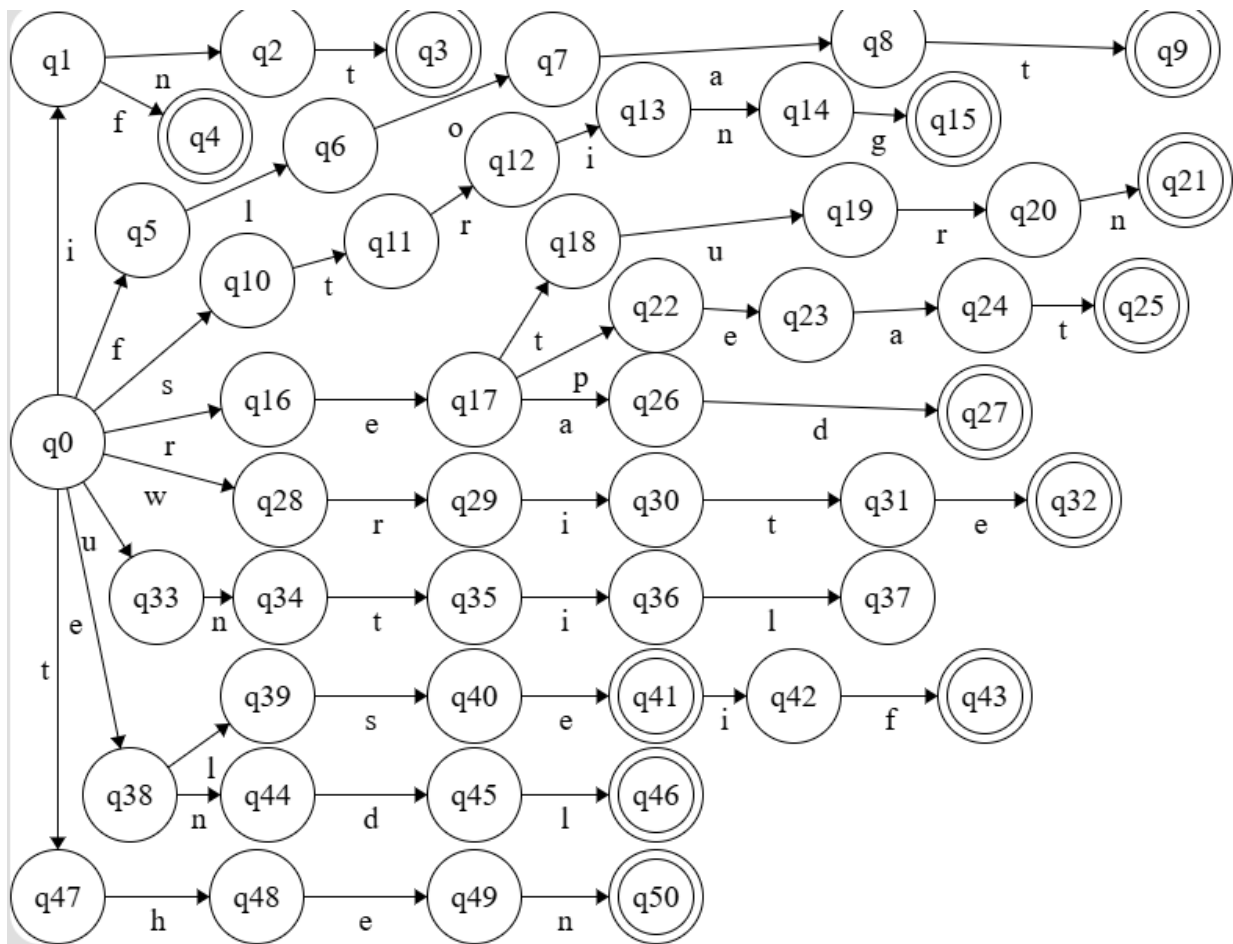## 2) String: (")([a-z] | [A-Z] | [0-9] | + | - | * | & | $)*(")
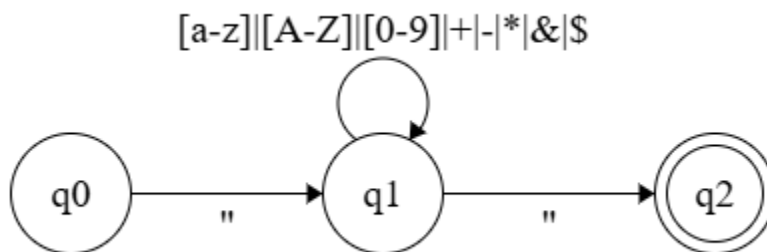
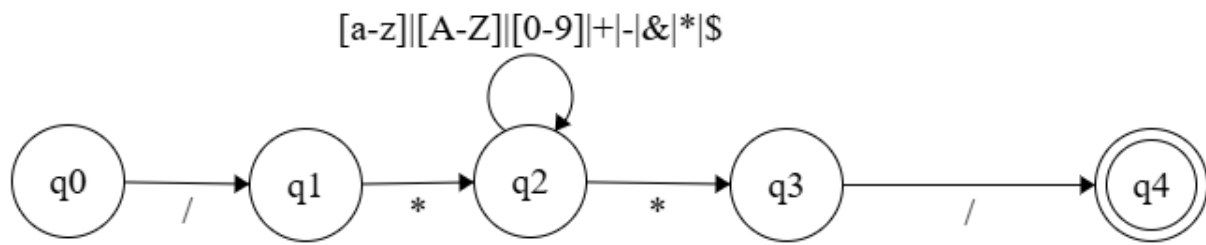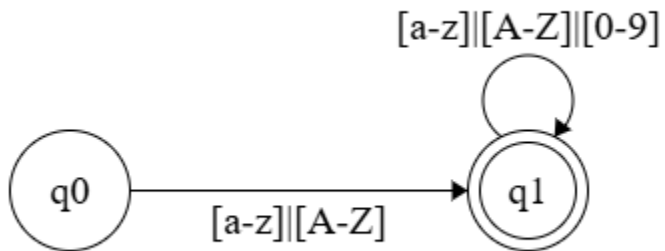## 3) Reserved_Keywords:

int|float|string|read|write|repeat|until|if|elseif|
else|then|return|endl

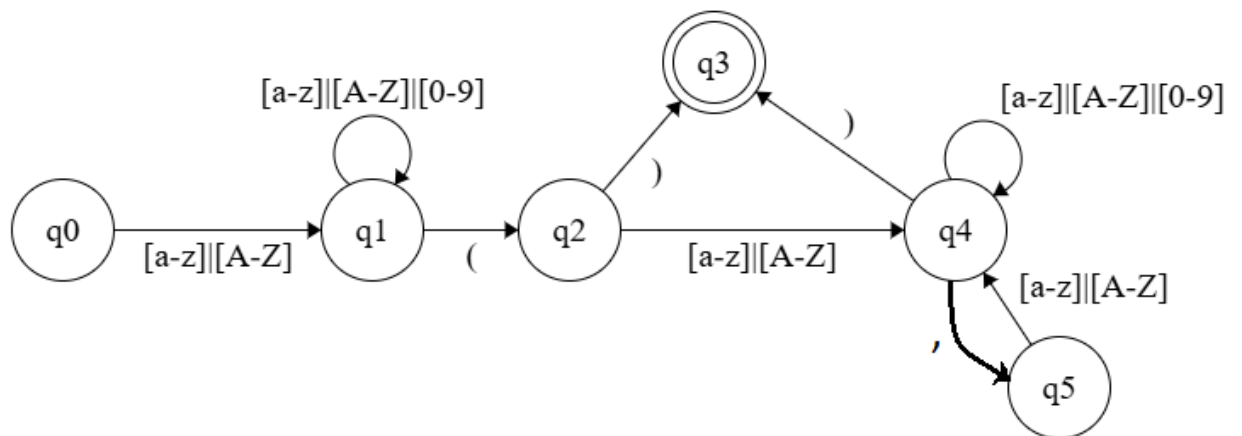## 4) Comment_Statment: (/)(*)([a-z] | [A-Z] | [0-9] |+|-|*|&|$|)*(*)(/)

[a-z]|[A-Z]|[0-9]|+|-|&|*|$

q0 ──/──▶ q1 ──*──▶ q2 ──*──▶ q3 ──/──▶ q4

5) Identifier: ([a-z]|[A-Z])+([a-z]|[A-Z]|[0-9])

[a-z]|[A-Z]|[0-9]

q0 ──[a-z]|[A-Z]──▶ q1

6) Function_Call: Identifier \(((Identifier)(,Identifier)*)*\)

q3

[a-z]|[A-Z]|[0-9]

[a-z]|[A-Z]|[0-9]

q0

[a-z]|[A-Z]

q1

(

q2

[a-z]|[A-Z]

)

)

q4

[a-z]|[A-Z]

,

q5

7) Arithmatic_Operator: (+|-|*|/)

q1

q2

+

q0

-

*

q3

/

q4
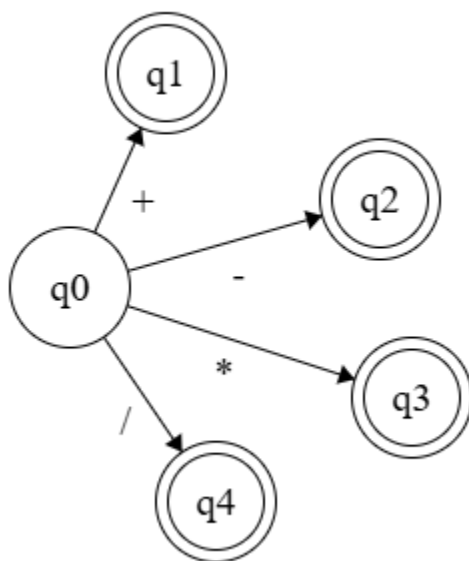
8) Condition_Operator (>|<|=|<>)

9) Boolean_Operator ("&&"|"||")