

DFA

$\Sigma \rightarrow$

Digit := [0-9]

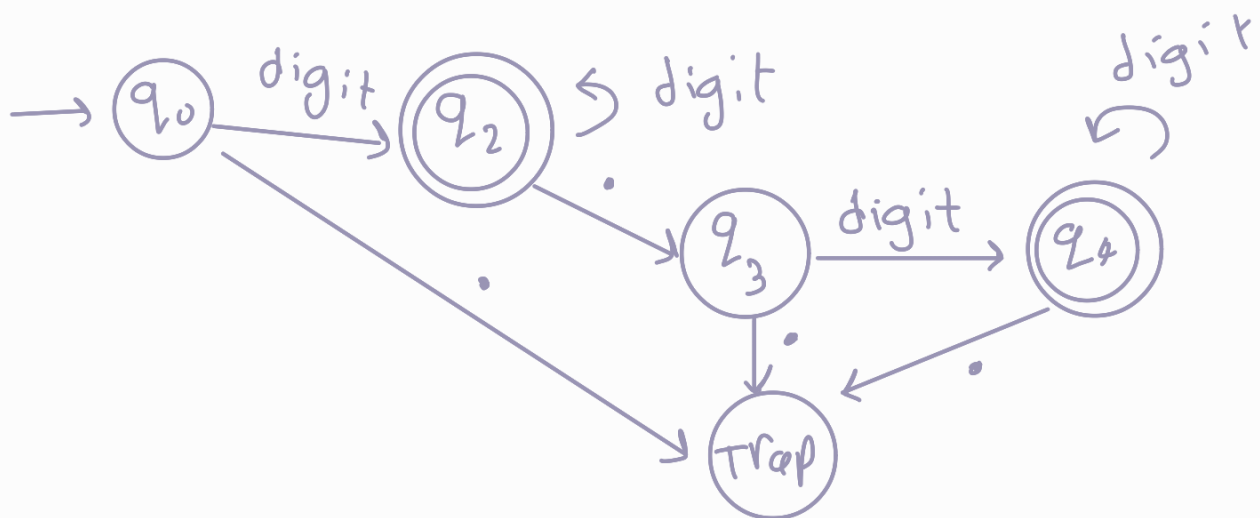
Letter := [_ | a-z | A-Z]

$\backslash \rightarrow$ Escape operator

+, *, ~, ?, (,) \rightarrow RE Rules

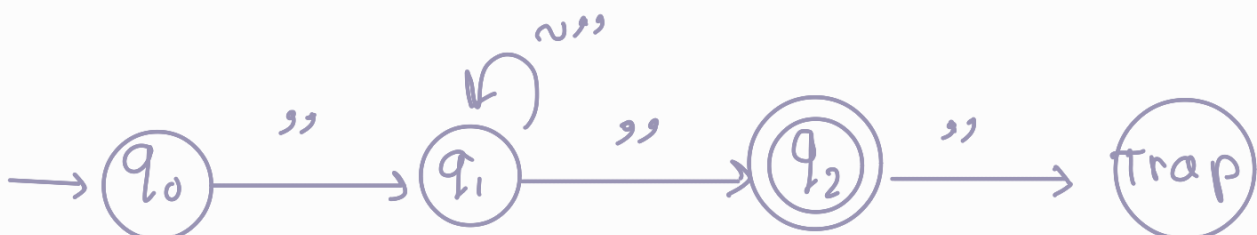
1) Number

$\text{Digit}^+ (\backslash . \text{Digit}^*) ?$



2) string

$" (\sim ")^* "$



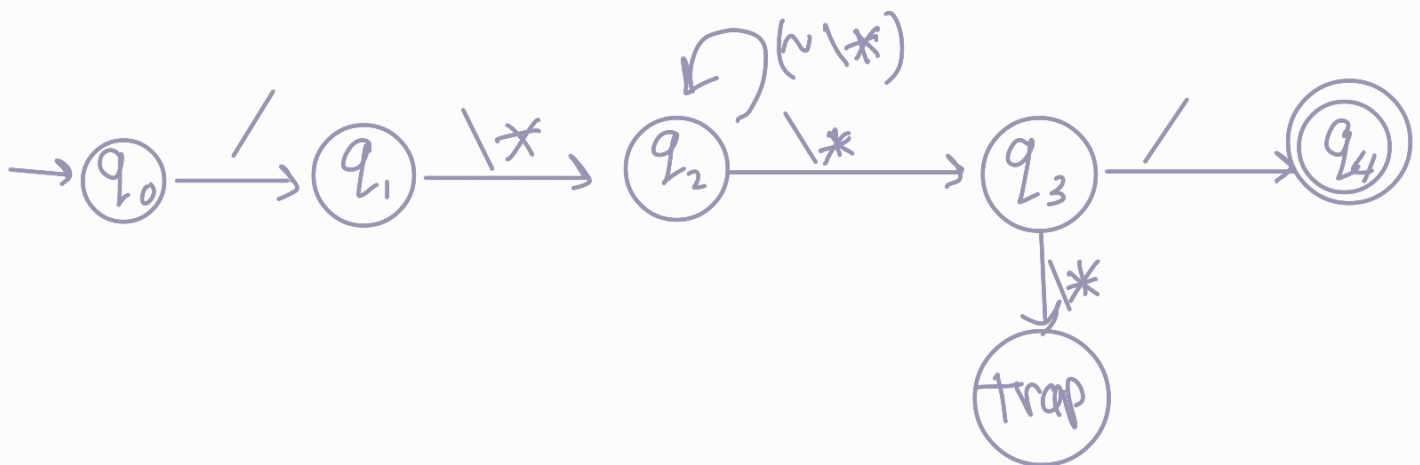
3) Reserved word

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

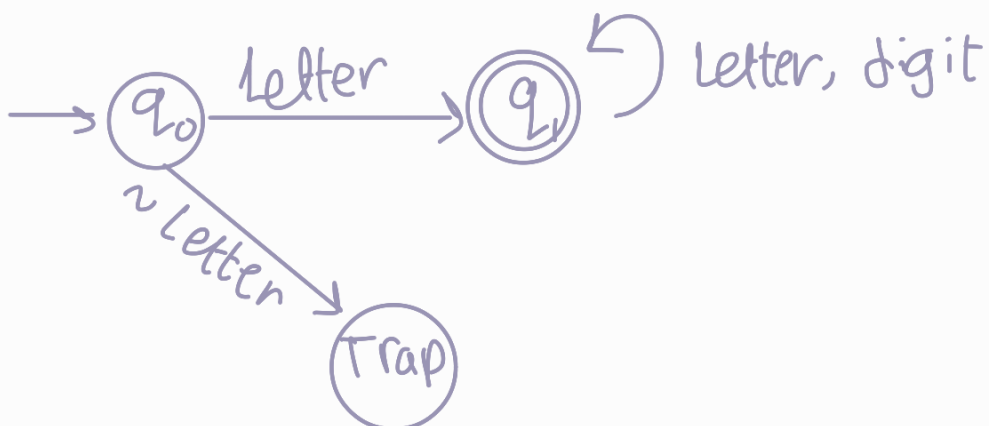


4) Comment statement

$/ \backslash *$ \cdot $*$ $\backslash *$ $/$



5) Identifier Letter (Letter | digit)*



6) Data Type

(int | float | string)



7) Arithmetic operator

\ + | - | \ * | /

8) Conditional operators

< | > | = | <>

9) Boolean operators

\ | \ | | & & | !

10) Assignment operator

: =



11) Brackets

\ { | \ }

12) Braces

\ [| \]

13) parentheses

\ (| \)

