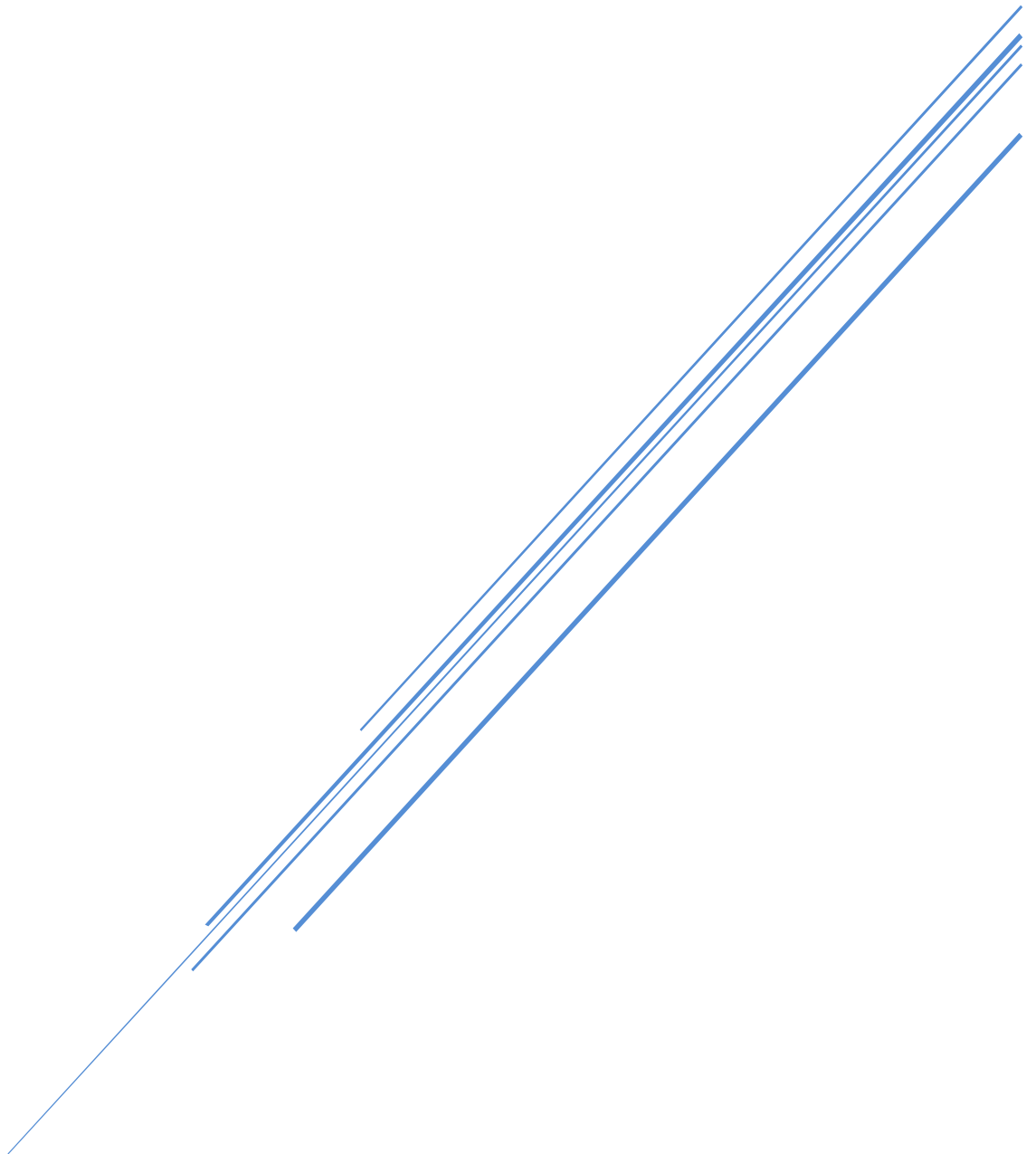


COMPILER THEORY

Tiny Compiler || MS1

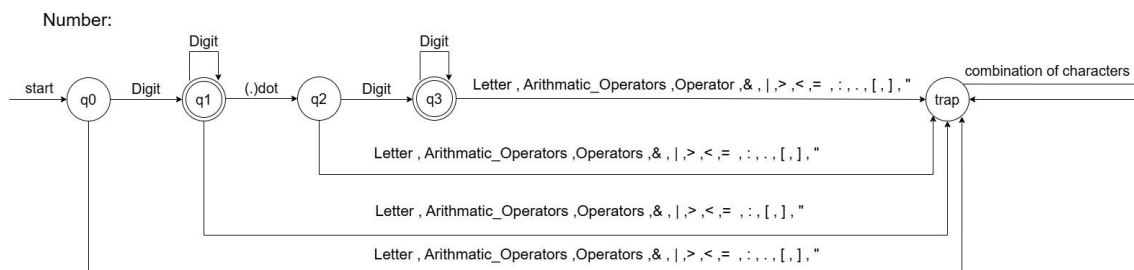
Document containing:

- The Regular Expressions for Tokens.
- DFAs rules of Tokens.

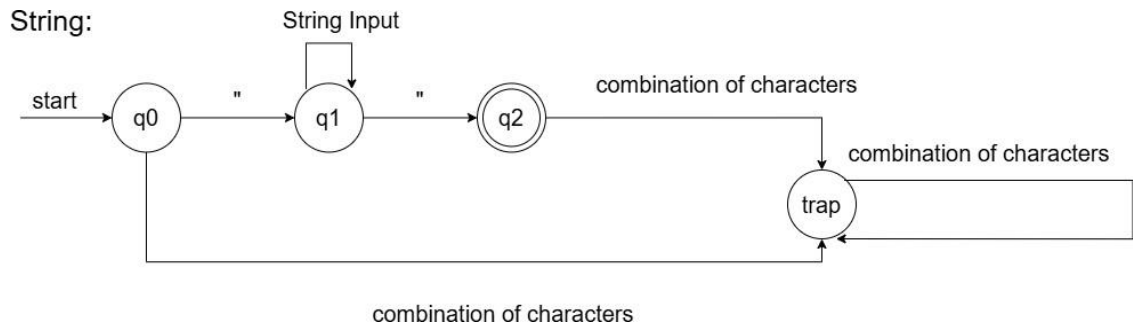


Regular Expressions and DFA for Tiny Language:

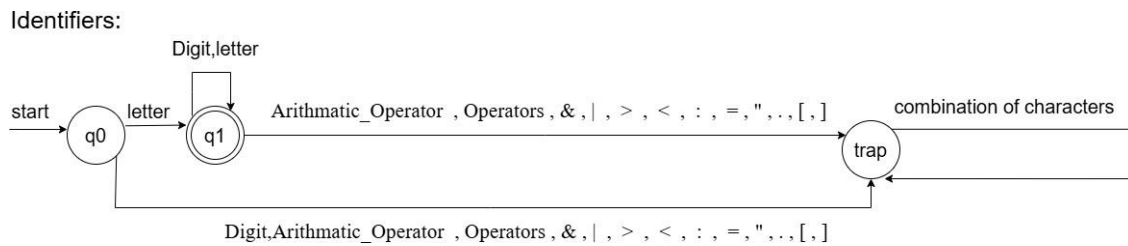
- **Digit:** [0-9]
- **Letter:** [a-z|A-Z]
- **Arithmetic_Operator:** + | - | * | \/
- **Operators:** , | ; | \ (| \) | { | }
- **Combination of characters:** Digit | Letter | Arithmetic_Operator | Operators | & | \ | > | < | : | = | \. | " | \[| \]
- **String Input:** Digit | Letter | Arithmetic_Operator | Operators | & | \ | > | < | : | = | \. | \[| \]
- **Number:** Digit+(\.Digit+)?



- **string:** \"(Combination of characters)*\"

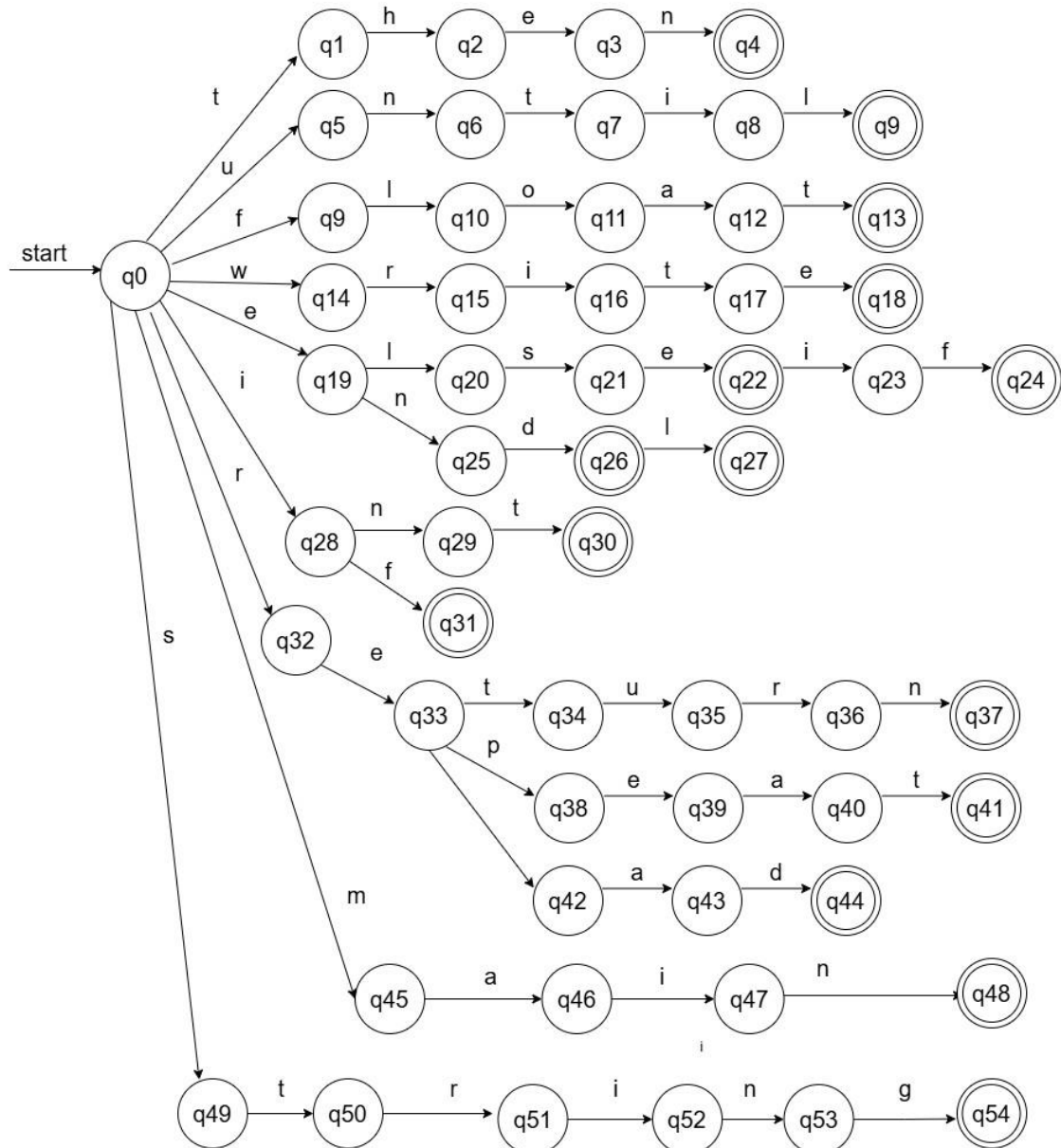


- **Identifiers:** Letter (Digit | Letter) *

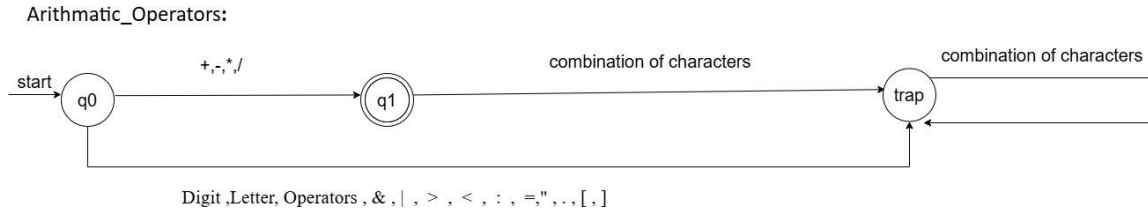


- **Reserved_Keywords:** int | float | string | read | write | repeat | until | if | elseif | else | then | return | endl | end | main

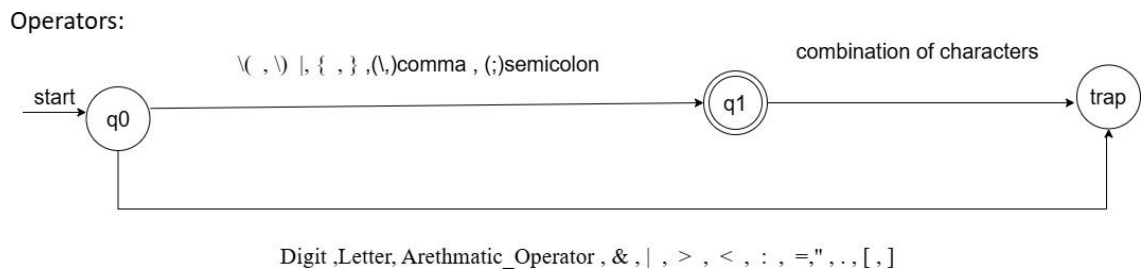
Reserved_keywords:



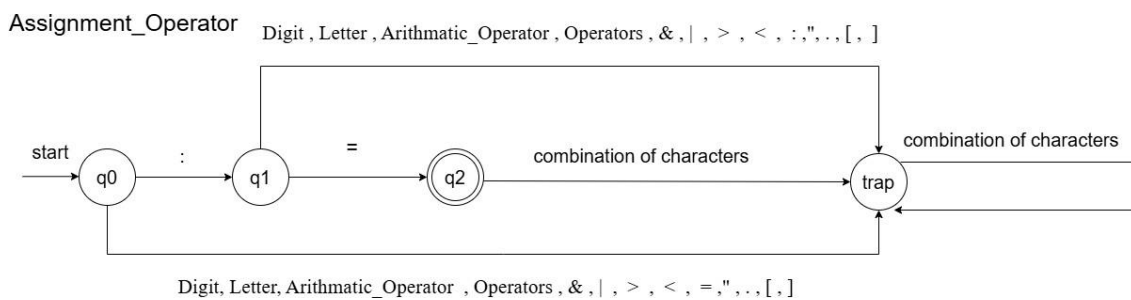
- Arithmetic_Operator: + | - | * | /



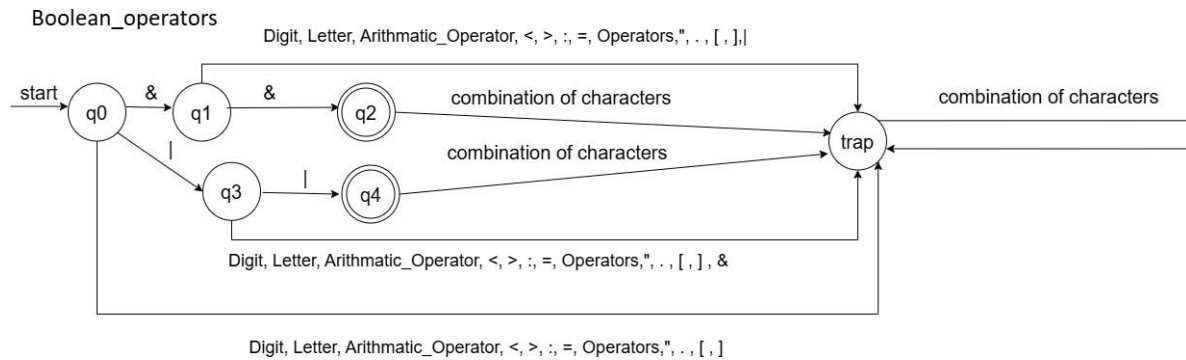
- Operators: , | ; | \ (| \) | { | }



- Assignment_Operator: :=



▪ Boolean_operators: & & | \\\



▪ Condition_Operator: < | > | <> | =

