RE Rules of Tiny Language

1. Number: (-|+)?(0-9)⁺[.(0-9)⁺]?
2. String: " .\* "
3. Reserved\_Keywords: int | float | string | read | write | repeat | until | if | elseif | else | then | return | endl
4. Comment\_Statement: / “\*” (.\*) “\*” /
5. Identifiers: (|a-z|A-Z)(|a-z|A-Z|0-9)\*
6. Function\_Call: identifier([identifier[, identifier]\*]|Ɛ)
7. Term: Number | Identifier | Function\_Call
8. Arithmatic\_Operator: + | - | \* | /

10-Expression: String | Term | Equation

11-Assignment\_Statement: Identifier := Expression

12-Datatype: int | float | string

13-Decleration\_Statement:

Datatype (identifier|assignment)(,identifier|,assignment)\*;

14-Write\_Statement: write [Expression | endl] ;

15- Read\_Statement: read Identifier ;

16- Return\_Statement: return Expression;

17- Condition\_Operator: **< | > | = | <>**

18- Condition: Identifier Condition\_Operator Term

19- Boolean\_Operator: && | ||

20- Condition\_Statement:

Condition [Boolean\_Operator Condition]\*

21- If\_Statement:

if Condition\_Statement then Statement⁺ [Else\_If\_Statement]\* [Else\_Statement **|** end]

22- Else\_If\_Statement:

elseif Condition\_Statement then Statement⁺

23- Else\_Statement: else Stetement⁺ end

24- Repeat\_Statement:

repeat Statement⁺ until Condition\_Statement

25- FunctionName: (|a-z|A-Z)(|a-z|A-Z|0-9)\*

26- Parameter: Datatype Identifier

27- Function\_Declaration:

Datatype FunctionName ( [Parameter [, Parameter]\*]? )

28- Function\_Body: { Statement⁺ Return\_Statement }

29- Function\_Statement:

Function\_Decleration Function\_Body

30- Main\_Function: Datatype main () Function\_Body

31- Program: Function\_Statement\* Main\_Function