Tiny CFG

6) func_call-> identifier (ID)

ID-> [number | identifier] comma'

comma'->, [func_cal | identifier| number]comma'| ε

7) Term->number | identifier | func_call

8) Arthematic_op->+ | - | * | /

9) Equ-> Equ op Equ| (Equ) | identifier|number

Equ->(Equ)Equdash|id Equdash|num Equdash|Func_cal Equdash

Equdash-> op Equdash | ε

10)Exp->string | Term | Equ

11) Assigement_state->id := Exp

12) Datatype->int | string | float

13)declare_statement-> data_type (id | Assigement_state) Declaration ;

Declaration -> ,id | , Assigement_state Declaration | ε

14) write_statement-> write Exp|endl;

15) read_statemnt-> read id ;

16) ReturnState →return Exp;

17) CondOp →< | > | = |<>

18) Condition→identifier CondOp Term

19) BoolOp →&& | ||

20) ConditionStatement→ ConditionStatement BoolOp Condition | Condition

- **ConditionStatement → Condition ConditionState**
- **ConditionState → BoolOp Condition ConditionState | Ɛ**

21) IfState→ if ConditionStatement then Statements ElseIfClosure

Statememts → Statement Statements | Ɛ

- **Statement → Comment_Statment | Assignment_Statment ; | declare_statement | Write_Statment | Read_Statment |Function_Call | IF_Statment | Repeat_Statment | Return_Statement | Ɛ**

ElseIfClosure → ElseIfState | ElseState | end

22) ElseIfState →elseif ConditionStatement then Statements ElseIfClosure

23) ElseState → else Statements end

24) RepeatState → repeat Statements until ConditionStatement

25) FnName →identifier

26) Parameter-> Datatype identifier

27)Function_Declaration -> Datatype FunctionName (Parameters)

~~Parameters -> Parameters ,Parameter | Parameter~~

Parameters -> Parameter Parameters'

Parameters' -> ,Parameter Parameters' | ε

28) Function_Body -> { Statements }

29) Function_Statment -> Function_Declaration Function_Body

30) Main_Function -> Datatype main () Function_Body

31) Program -> FunStatement Main_Function

FunStatement -> Function_Statment FunStatement | ε