**Tiny CFG:**

1. **Program → Functions MainFunction | MainFunction**
2. **MainFunction → int main () FunBody**
3. **Functions** **→ Functions Function | Function | ε**
   1. **Functions → Function Funcs**
   2. **Funcs → Function Funcs | ε**
4. **Function → FunDeclaration FunBody**
5. **FunDeclaration → DataType identifier Parameter**
6. **DataType → int | float | string**
7. **Parameter → ( Parameters )**
8. **Parameters → DataType identifier , Parameters | DataType identifier | ε**
   1. **Parameters → DataType identifier Parameters’**
   2. **Parameters’ → , Parameters | ε**
9. **FunBody** **→ { Statements ReturnSt }**
10. **Statements → Statements ; Statement | Statement**
    1. **Statements → Statement State**
    2. **State → ; Statement State | ε**
11. **Statement → AssignmentSt | DeclarationSt** **| WriteSt |** **ReadSt |** **ReturnSt | ConditionSt | IfStatement | ElseIfStatement | ElseStatement | Repeat | FunctionCall | ε**
12. **AssignmentSt → identifier := Expressions**
13. **Expressions → Expressions AddOp Term | Term** 
    1. **Expressions → Term Exp**
    2. **Exp → AddOp Term Exp | ε**
14. **Equation → ( Expressions )**
15. **Term → Term MultOp Factor | Factor**
    1. **Term → Factor Ter**
    2. **Ter → MultOp Factor Ter | ε**
16. **MultOp → \* | /**
17. **AddOp → + | -**
18. **Factors → Factors Factor| Factor**
    1. **Factors → Factor Fact**
    2. **Fact → Factor | ε**
19. **Factor → identifier | constant | FunctionCall**
20. **DeclarationSt → DataType identifiers := Expressions | DataType identifiers**
    1. **DeclarationSt → DataType identifiers DeclarationSt’**
    2. **DeclarationSt’ → := Expressions | ε**
21. **WriteSt → write Expressions endl**
22. **ReadSt → read identifier**
23. **ReturnSt → return Expressions**
24. **ConditionSt → Condition BoolOp ConditionSt | Condition**
    1. **ConditionSt → Condition ConditionSt’**
    2. **ConditionSt’ → BoolOp ConditionSt | ε**
25. **Condition → identifier ConditionOp Term**
26. **BoolOp → && | ||**
27. **ConditionOp → < | > | = | <>**
28. **IfStatement → if ConditionSt then Statements [ElseIfStatement | ElseStatement | end]**
29. **ElseIfStatement → elseif ConditionSt then Statements [ElseIfStatement | ElseStatement | end]**
30. **ElseStatement → else Statements end**
31. **Repeat → repeat Statements until ConditionSt**
32. **FunctionCall → identifier ArgList**
33. **ArgList → ( Arguments) | ε**
34. **Arguments → Arguments, identifier | identifier**
    1. **Arguments → identifier Arg**
    2. **Arg → , identifier Arg | ε**