Tiny CFG

1. *Program → [FunctionStatements] MainFunction*
2. *MainFunction → DataType* **main ()** *FunctionBody*
3. *FunctionStatements → FunctionStatement FunctionStatements* | **ε**
4. *Paramters → DataType* **Identifier** *OtherParamters* | **ε**
5. *OtherParamters →* **,** *DataType* **Identifier** *OtherParamters* |  **ε**
6. *FunctionStatement → FunctionDeclartion FunctionBody*
7. *FunctionDeclartion → DataType* **identifer (***Paramters***)**
8. *FunctionBody →* **{** *Statements ReturnStatement* **}**
9. *Statements → Statement State*
10. *State → Statement State* | **ε**
11. *Statement -> IfStatement*

| *ReturnStatement*

| *ReadStatement*

| *WriteStatement*

| *RepeatStatement*

| *DeclarationStatement*

| *AssignmentStatement***;**

| *FunctionCall***;**

| **ε**

1. *DeclarationStatement → DataType VarsDeclartion***;**
2. *VarsDeclartion →* **identifier** *Initialization Declartions*
3. *Declartions →* **, identifier** *Initialization Declartions* | **ε**
4. *Initialization →* **:=** *Expression* | **ε**
5. *AssignmentStatement →* **identifier :=** *Expression*
6. *Term →* **Number**|**idetifier**| *FunctionCall*
7. *FunctionCall →* **identifier****(***Args***)**
8. *Args → Arg OtherArgs* | **ε**
9. *OtherArgs →* **,** *Arg OtherArgs* | **ε**
10. *Arg →* **identifier** | **number**
11. *WriteStatement →* **write** *Printed***;**
12. *Printed → Expression* |**Endl**
13. *ReadStatement →* **read****identifier;**
14. *ReturnStatement →* **return** *Expression***;**
15. *Condition →* **identifier** *ConOp term*
16. *ConditionStatement → condition Conditions*
17. *Conditions → Boolop Condition Conditions* | **ε**
18. *RepeatStatement →* **repeat** *Statements* **until** *ConditionStatement*
19. *DataType →* **int**|**float**| **string**
20. *IfStatement →* **if** *ConditionStatement* **then** *Statements [ElseifStatements] [ElseStatement]* **end**
21. *ElseIfStatements→* **elseif** *ConditionStatement* **then** *Statements ElseIfStatements*| **ε**
22. *ElseStatement →* **else** *Statements*
23. *Expression →* **string**| *Term* | *Equation*
24. *Equation* → *SubEquation SubEquations*
25. *SubEquations* → *AddOp SubEquation SubEquations* | **ε**
26. *SubEquation* → *SmallEquation E*
27. *E* → *MultOp SmallEquation E* | **ε**
28. *SmallEquation* → *Oprand Equations* | **(***Oprand Equations***)**
29. *Equations* → *AddOp Oprand Equations* | **ε**
30. *Oprand* → *Term Ter*
31. *Ter* → *MultOp Term Ter* | **ε**
32. *BoolOp →* **||**|**&&**
33. *AddOp →* **+**|**-**
34. *MultOp →* **\***|**/**