Task (2)

CFG document

- Function_call → Identifier (Arguments)
- Arguments → Expression Arg | €
- Arg → , Expression Arg | E
- Term → Number | Identifier | Function_call
- Arithmetic_operator → + | | * | /
- Equation → Term Eq | (Equation) Eq
- Eq → Arithmetic_operator E Eq | E
- E → Term | (Equation)
- Expression → Term | String | Equation
- Assignment statement → Identifier := Expression;
- Datatype → int | float | String
- Declaration_Statement → Datatype Declaration;
- Declaration → Dec Declist
- Declist → , Dec Declist | €
- Dec → Identifier | Assignment_Statement
- Write_Statement → write W_statement;
- W_statement → Expression | endl
- Read_Statement → read Identifier;

- Return_Statement → return Expression;
- Condition_Statement → Condition condStmts
- condStmts → Bool_Operator Condition condStmts | €
- Condition → Identifier Condition_Operator Term
- Condition_Operator → < | > | = | <>
- Bool_Operator → (&&) | (||)
- Statements → Statement State
- State → Statement State | €
- Statement → Assignment_Statement | Decleration_Statement |
 Write_Statement | Read_Statement | Repeat_Statement | If_Statement |
 Comment_Statement | E
- If Statement → if Condition Statement then Statements Else
- Else → Else_If_Statement | Else_Statement | end
- Else_If_Statement → else if Conditional_Statement then Statements Else
- Else_Statement → else Statements end
- Repeat_Statement → repeat Statements until Condition_Statement
- Function_Deleration → Datatype Function_Name (Parameters)
- Parameters → Parameter Par | E
- Parameter → Datatype Identifier
- Par → , Parameter Par | E
- Function_Name → Identifier
- Function_Body → { Statements Return_Statement }
- Program → Function Main_Function
- Function → Function_Statement Function | €
- Function Statement → Function Decleration Function Body
- Main_Function → Datatype main() Function_Body