Program  Progfunction MainFunction

Progfunction  Function | ε

Function  FunctionDeclaration FunctionBody

FunctionCall 🡪 identifier (Arguments)

Arguments 🡪 Arguments , Expression | Expression | ε

MainFunction Datatype main () FunctionBody

FunctionDeclaration Datatype identifer (Parameter)

FunctionBody { Statements ReturnStatement }

Datatype  int|float|string

Parameter → Datatype identifier Parameter’| ε

Parameter’ → , Datatype identifier Paramete’ | ε

Statements → Statement Statements’

Statements’ → ; Statement Statements’ | ε

Statement CommentStatment| AssignmentStatement|DeclarartionStatemnet|WriteStatement|

ReadStatement|ReturnStatement|ConditionStatement|IfStatement|ElseIfStatement|ElseStatement|

RepeatStatment

ReturnStatement  return Expression ;

Expression  number | Operation | string

Operation  OperationBegin Op identifier

OperationBegin  Operation | identifier

Op  + | - | / | \*

CommentStatment /\*CommentBody\*/

CommentBody → string CommentBody'

CommentBody'→ string CommentBody'| ε

AssignmentStatement  identifier := Expression

DeclarationStatemnet  Datatype Declist |ε

Declist → identifier Declist’| AssignmentStatement Declist’

Declist’ → , identifier Declist'| , AssignmentStatement Declist'| ε

WriteStatement  write Expression ;| write endl ;

ReadStatement  read identifier ;

ConditionStatement  Condition ConditionStatement’

ConditionStatement’  BooleanOperator Condition ConditionStatement’ | ε

Condition identifier ConditionOperator Term

BooleanOperator  && | ||

ConditionOperator  < | > | = | <>

Term  number | identifier | FunctionCall

IfStatement  if ConditionStatement then Statements IfTail end

IfTail  ElseIfStatement | ElseStatement | ε

ElseIfStatement  elseif ConditionStatement then Statements IfTail

ElseStatement  else ConditionStatement Statements

RepeatStatment  repeat Statements until ConditionStatement