**Program** ➡️ **Declaration | Loop | ConditionStmt | Assign | Print |**

**Func_Return** ➡️ *return* **| Exp |** *SEMICOLON*

**Declaration** ➡️ *DATATYPE ID* **FunDeclaration | VarDeclaration**

**FunDeclaration** ➡️ *(* **Params** *) {* **Program** *}*

**VarDeclaration** ➡️ *ASSIGNOP*

          **Exp |** *ID (* **Params** *)*

          **|** [ NUM ]

          *SEMICOLON*

**Params** ➡️ *DATATYPE ID* **|** *COMMA* **Params**

**Exp** ➡️ **Exp**

          *MATHOP* **|** *BITSOP*

          **|** *ID* **|** *NUM*


**Loop** ➡️ *LOOP ( DATATYPE ) ID IN (* **Range** *) ) {* **Program** *}*

**Range** ➡️ **Exp** *RANGE* **Exp**

**ConditionStmt** ➡️ *if_stmt (* **Condition** *) {* **Program** *}*
*else_stmt {* **Program** *}*

**Condition** ➡️ **Exp** *COMPARISONOP* **Exp**

**Assign** ➡️ *ID ASSIGNOP*

          *NUM* **| AssignToVar**

          *SEMICOLON*

**AssignToVar** ➡️ **Exp | Exp** *( Params )*

**Print** ➡️ *PRINT ( ID ) SEMICOLON*