Our Project Grammar

Program ::= Block $  
Block ::= { StatementList } 
StatementList ::= Statement StatementList ::= ε 
Statement ::= PrintStatement 
AssignStatement 
VarDecl 
WhileStatement 
IfStatement 
Block 
PrintStatement ::= print ( Expr ) 
AssignmentStatement ::= Id = Expr 
VarDecl ::= type Id 
WhileStatement ::= while BooleanExpr Block 
IfStatement ::= if BooleanExpr Block

Expr ::= IntExpr 
StringExpr 
BooleanExpr ::= ( Expr boolop Expr ) 
boolval

Id ::= char
CharList ::= char CharList 
space CharList 
ε

type ::= int | string | boolean
char ::= a | b | c ... z
space ::= the space character
digit ::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
boolop ::= == | !=
boolval ::= false | true
intop ::= +

Comments are bounded by /* and */ and ignored by the lexer.