## Our Project Grammar

Program	::==	Block \$	
Block	::==	{ StatementList }	Curly braces
StatementList	::== ::==	Statement StatementList $\epsilon$	aenote new scope.
Statement	::== ::== ::== ::== ::==	PrintStatement AssignmentStatement VarDecl WhileStatement IfStatement Block	
PrintStatement	::==	print ( Expr )	
AssignmentStatement	::==	Id = Expr	= is assignment.
VarDecl	::==	type Id	
WhileStatement	::==	while BooleanExpr Block	
IfStatement	::==	<b>if</b> BooleanExpr Block	
Expr	::== ::== ::==	IntExpr StringExpr BooleanExpr Id	
IntExpr	::== ::==	digit intop Expr digit	
StringExpr	::==	" CharList "	
BooleanExpr	::== ::==	( Expr boolop Expr ) boolval	
Id	::==	char	
CharList	::== ::== ::==	char CharList space CharList ε	
type	::==	int   string   boolean	
char	::==	a   b   c z	
space	::==	the <b>space</b> character	
digit	::==	0   1   2   3   4   5   6	7   8   9
boolop	::==	==   !=	== is test for equality.
boolval	::==	false   true	
intop	::==	+	

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