Anthony Bisgood Zach Empkey Csc 372 4/15/2022

CSC 372 Project 2: Grammar

<stmt>::= <comment> | <printVal>; | <printStr>; | <assign>; | <conditional>

<comment>::= @<string>\n

<printVal> ::= show(varName)

<printStr> ::= show("<alphabet><varName>|<alphabet>")

<conditional>::= if (<boolexpr>) {<block>} | while (<boolexpr>) {<block>}

<block>::= <block><stmt> | <stmt>

<string>::= <alphabet> | <string><alphabet>

<int expr1>::= <int expr2> | <int expr1> + <int expr2> | <int expr1> -

<int expr2>

<int_expr3>::= -<int> | <int> | -<var> | <var>

<str_expr>::= <str_expr> + <string> | <string>

<boolexpr>::= <boolexpr> && <cmpr> | <boolexpr> || <cmpr> | !<cmpr> | <cmpr> |

<varName>::= <alphabet><varName> | <alphabet>

<val>::= <int> | <string> | <bool>

<assign>::= <type> <var> is <expr>

<type>::= Int, String, Bool

<int_ops> ::= + | - | * | % | / <bool>::= true | false