**BNF of the BigAdd Language**

<line> 🡪 <declaration> | <assignment> | <addition> | <subtraction> | <output> | <loop> | <comment>

<declaration> 🡪 <type><variable><end-of-line>

<type> 🡪 int

<variable> 🡪 <variable><any\_char> | <alphabetic>

<any\_char> 🡪 <alphabetic> | <numeric>

<alphabetic> 🡪 A | B ……….| Z | a | b…………….| z

<numeric> 🡪 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

<assignment> 🡪 move<int\_value>to<variable><end-of-line>

<int\_value> 🡪 <numeric> | -<numeric | -<numeric><int\_value> | <numeric><int\_value> | <variable>

<addition> 🡪 add<int\_value>to<variable><end-of-line>

<subtraction> 🡪 sub<int\_value>from<variable><end-of-line>

<output> 🡪 out<out\_list><end-of-line>

<out\_list> 🡪 <out\_list><seperator><list\_element> | <list\_element>

<list\_element> 🡪 <int\_value> | <string> | newline

<string> 🡪 “……..”

<seperator> 🡪 ,

<loop> 🡪 loop<int\_value>times<code\_block>

<code\_block> 🡪 <line> | <openBlock><statements><closeBlock>

<statement> 🡪 <line> | <line><statement>

<openBlock> 🡪 [

<closeBlock> 🡪 ]

<comment> 🡪 <openComment><string><closeComment>

<openComment> 🡪 {

<closeComment> 🡪 }

<end-of-line> 🡪 .