Group Name: Hello, Hai, Kthxbye	Section: S4L
Member 1: Psymon Sez E. Arcedera	Member 3: James Carl V. Villarosa
Member 2: Aaron Jacob C. Perez	

LOLCODE GRAMMAR

Use angle brackets (<,>) to denote abstractions. Type lexemes that have been defined in Project Requirement 01 using lowercase letters. If the lexemes have not yet been defined, add the newly defined lexemes at the last section of this document.

LHS	::=	RHS
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	::=	HAI linebreak <statement> linebreak KTHXBYE</statement>
<statement></statement>	::=	<pre><statement> linebreak <statement> <statement> <comment> <input/> <print> <variable> <expression> <assignment> <typecast> <flowcontrol> <function_definition> <function_call> GTFO</function_call></function_definition></flowcontrol></typecast></assignment></expression></variable></print></comment></statement></statement></statement></pre>
<comment></comment>	::=	BTW <character> linebreak linebreak OBTW <value_literal> TLDR</value_literal></character>
<input/>	::=	GIMMEH varident
<print></print>	::=	VISIBLE varident linebreak VISIBLE <expr> linebreak VISIBLE <value_literal> linebreak</value_literal></expr>
<variable></variable>	::=	WAZZUP linebreak <declaration> linebreak BUHBYE</declaration>
<declaration></declaration>	::=	I HAS A varident I HAS A varident ITZ varident I HAS A varident ITZ <expression></expression>
<expression></expression>	::=	<arithmetic> <comparison> <boolean></boolean></comparison></arithmetic>
<assignment></assignment>	::=	<pre>varident R <type_literal> varident R varident varident R <expression> varident R MAEK varident <type_literal></type_literal></expression></type_literal></pre>
<arithmetic></arithmetic>	::=	SUM OF <operand> AN <operand> DIFF OF <operand> AN <operand> PRODUCKT OF <operand> AN <operand> QUOSHUNT OF <operand> AN <operand> MOD OF <operand> AN <operand> BIGGR OF <operand> AN <operand> SMALLR OF <operand> AN <operand> </operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand>
<pre><concatenation></concatenation></pre>	::=	SMOOSH <multioperand></multioperand>

<comparison></comparison>		
Comparison	::=	BOTH SAEM <operand> AN <operand> DIFFRINT <operand> AN <operand> BOTH SAEM <operand> AN BIGGR OF <operand> <operand> BOTH SAEM <operand> AN SMALLR OF <operand> <operand> DIFFRINT <operand> AN BIGGR OF <operand> <operand> DIFFRINT <operand> AN SMALLR OF <operand> <operand> </operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand></operand>
<boolean></boolean>	::=	BOTH OF <operand> AN <operand> EITHER OF <operand> AN <operand> WON OF <operand> AN <operand> NOT <operand> ALL OF <multioperand> MKAY ANY OF <multioperand> MKAY</multioperand></multioperand></operand></operand></operand></operand></operand></operand></operand>
<operand></operand>	::=	varident <value_literal> <expression></expression></value_literal>
<multioperand></multioperand>	::=	<pre><operand> <operand> AN <multioperand></multioperand></operand></operand></pre>
<typecast></typecast>	::=	MAEK varident A <type_literal> MAEK varident <type_literal> varident IS NOW A <type_literal></type_literal></type_literal></type_literal>
<flowcontrol></flowcontrol>	::=	<if_then> <switch_case> <loop></loop></switch_case></if_then>
<if_then></if_then>	::=	O RLY? linebreak YA RLY linebreak <statement_return> linebreak OIC O RLY? linebreak YA RLY linebreak <statement_return> linebreak NO WAI linebreak <statement_return> OIC</statement_return></statement_return></statement_return>
<switch_case></switch_case>	::=	WTF? linebreak <switch> OMGWTF linebreak <statement_return> linebreak OIC</statement_return></switch>
<switch></switch>	::=	OMG <value_literal> linebreak <statement_return> linebreak OMG <value_literal> linebreak <statement_return> linebreak <switch> OMG</switch></statement_return></value_literal></statement_return></value_literal>
		<pre><value_literal> linebreak <statement_return> linebreak GTF0</statement_return></value_literal></pre>
<100p>	::=	_
<loop> <loop_type></loop_type></loop>		GTFO IM IN YR varident <loop_type> linebreak</loop_type>
	::=	<pre>GTF0 IM IN YR varident <loop_type> linebreak <statement_return> linebreak IM OUTTA YR varident UPPIN YR varident TIL <comparison> UPPIN YR varident WILE <comparison> NERFIN YR varident TIL <comparison> </comparison></comparison></comparison></statement_return></loop_type></pre>
<pre><loop_type> <function_defin< pre=""></function_defin<></loop_type></pre>	::=	IM IN YR varident <loop_type> linebreak <statement_return> linebreak IM OUTTA YR varident UPPIN YR varident TIL <comparison> UPPIN YR varident WILE <comparison> NERFIN YR varident TIL <comparison> NERFIN YR varident WILE <comparison> HOW IZ I varident <parameter> linebreak <statement_return> linebreak IF U SAY SO HOW IZ I varident linebreak <statement_return> linebreak IF U</statement_return></statement_return></parameter></comparison></comparison></comparison></comparison></statement_return></loop_type>

<function_call></function_call>	::=	I IZ varident <call_parameter> MKAY</call_parameter>
<pre><call_parameter></call_parameter></pre>	::=	YR <expression> YR <expression> AN <parameter>]</parameter></expression></expression>
<type_literal></type_literal>	::=	numbr numbar yarn troof
<pre><value_literal></value_literal></pre>		NUMBR Literal NUMBAR Literal YARN Literal TROOF Literal

NEWLY-ADDED LEXEMES

Put here the definition of the lexemes that have not yet been defined in Project Requirement 01.

LEXEME	Regular Expression
linebreak	\n