GRAMATICA\_PASCAL = (VARIAVEIS, TERMINAIS, REGRAS, START)

VARIAVEIS = {

START,

LISTADEC,

LDEC,

BLOCOM,

DEC,

LISTAID,

LID,

TIPO,

LISTACOM,

LCOM,

COM,

LISTAEXP,

LEXP,

EXP,

IF,

ELSE,

OP1,

E1,

OP2,

E2,

E3,

OP4,

E4,

OP5,

UNIT

}

TERMINAIS = {

[PROGRAM],

[ID],

[PTVIR],

[VAR],

[DOISPT],

[VIRG],

[REAL],

[BOOLEAN],

[BEGIN],

[END],

[READ],

[APAR],

[FPAR],

[WRITE],

[ATRIB],

[IF],

[THEN],

[ELSE],

[IGUAL],

[DIF],

[MAIOR],

[MENOR],

[MAIOR-IG],

[MENOR-IG],

[AND],

[OR],

[NOT],

[SOMA],

[SUBT],

[MULT],

[DIV],

[DIVINT],

[CONST],

[BOOL]

}

REGRAS = {

START -> **[PROGRAM] [ID][PTVIR] [VAR]** LISTADEC BLOCOM

LISTADEC -> LISTAID **[DOISPT]** TIPO**[PTVIR]** LDEC

LDEC -> LISTADEC | **ε**

LISTAID -> **[ID]**LID

LID -> **[VIRG]** LISTAID | **ε**

TIPO -> **[REAL]** | **[BOOLEAN]**

BLOCOM -> **[BEGIN]** COM LISTACOM **[END]**

LISTACOM -> **[PTVIR]** COM LISTACOM | **ε**

COM -> **[READ][APAR]**LISTAID**[FPAR]** | **[WRITE][APAR]**EXP LISTAEXP**[FPAR]** | **[ID] [ATRIB]** EXP | BLIF

BLIF -> **[IF]** EXP **[THEN]** BLOCOM BLELSE

BLELSE -> **[ELSE]** BLOCOM | **ε**

LISTAEXP -> **[VIRG]** EXP LISTAEXP | **ε**

EXP -> E1 OP1

OP1 -> **[IGUAL]** E1 | **[DIF]** E1 | **[MAIOR]** E1 | **[MENOR]** E1 | **[MAIORIG]** E1 | **[MENORIG]** E1 | **ε**

E1 -> E2 OP2

OP2 -> **[AND]** E1 | **[OR]** E1 | **ε**

E2 -> **[NOT]** E3 | E3

E3 -> E4 OP4

OP4 -> **[SOMA]** E3 | **[SUBT]** E3 | **ε**

E4 -> UNIT OP5

OP5 -> **[MULT]** E4 | **[DIV]** E4 | **[DIVINT]** E4 | **ε**

UNIT -> **[APAR]**EXP**[FPAR]** | **[ID]** | **[CONST]** | **[BOOL]**

}