Alphabet:

a. Upper (A-Z) and lower case letters (a-z) of the English alphabet

b. Decimal digits (0-9);

Lexic:

a.Special symbols, representing:

- operators + - \* / // % ?: < <= == >= != ^ += -= \*= !

- separators [ ] {} () : ; $ ## `

- reserved words: true, false, def, int, float, string, read, print, fun, if, else, while, exit, GO, BYE

b.identifiers

-a sequence of letters and digits, such that the first character is a letter; the rule is:

identifier ::= letter{letter|digit}

letter ::= “a” | “b” | … | “z” | "A" | "B" | . ..| "Z"

digit = "0"|nzdigit

nzdigit = "1"|...|"9"

c.constants

1.integer:

int = "0"|["+"|"-"]nzdigit{digit}

2. string

special\_char ::= “.” | “ ” | “,” | ":" | ";" | “’”

char:='letter'|'digit'|’special\_char’

constchar:=`string`

string:=char{string}

char:=letter|digit|special\_char

3. float

float = int | int “,” digit {digit}

4. boolean

boolean = „true” | „false”