**lexic.txt**

**Alphabet:**

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

**b. Underline character '\_';**

**c. Decimal digits (0-9);**

**a.Special symbols, representing:**

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

**- separators [ ] { }  : ; space**

**- reserved words:**

**array, char, write\_to\_console, else,  if, int,  read, while, do,  read, const**

**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” | …s | “z”.**

**digit = "0" | "1" | ... | “9”.**

**c.constants**

**1. integer - rule:**

**noconst = [“+” | “-“] no**

**no = digit{no}**

**2. character**

**character = ‘letter’ | ‘digit’**

**3. string**

**constchar = "string"**

**string = char{string}**

**char = ‘letter’ | ‘digit’**