Alphabet:

- a. Upper (A-Z) and lower case letters (a-z) of the English alphabet
- b. Underline character '_';
- c. Hyphen character '-';
- d. Decimal digits (0-9);

Lexic:

- a. Special symbols, representing:
- operators + * / ^ gt lt eq geqt leqt <- and or not
- separators [] {}():;, "" " space tab newline
- reserved words: start end number read print if fi else string for rof list char root while elihw
- **b.** Identifiers
- a sequence of letters, digits underline or hyphen, such that the first character is a letter; the rule is:

identifier = letter|letter{letter}{hyphen|underline}{digit}{letter}{hyphen|underline}{letter}

```
letter = "A" | "B" | ... | "Z" | "a" | "b" | ... | "z"

digit = "0" | "1" | ... | "9"

hyphen = "-"

underline = "_"
```

- c. Constants
- 1. integer rule:

```
integer = ["+" | "-"] non_null_digit {digit} | "0"
non_null_digit = "0" | "1" | ... | "9"
digit = "0" | non_null_digit
```

2. character

```
character = 'letter' | 'digit'
```

3. string

```
constchar = "string"

string = char{string}

char = letter | digit
```