REGULAR EXPRETIONS

|  |  |  |  |
| --- | --- | --- | --- |
| N | TYPE | REGEX | DFA |
| 1 | Number | [0-9]+ |  |
| 2 | String | [“.\*”] |  |
| 3 | Reserved-  Keywords | [int | float | string | read | write | repeat | until | if | elseif | else | then | return | endl ] |  |
| 5 | Identifiers | [A-Za-z]+[0-9]\*[A-Za-z]\* [\_[A-Za-z0-9]+]\* |  |
| 6 | Function\_Call | Identifier \( (Identifier?| Identifier (, Identifier)\*) \) |  |
| 7 | term | [Number | Identifiers | Function\_Call] |  |
| 8 | Arithmatic\_Operator | [+ | - | \* | / ] |  |
| 9 | Equation | [ Term | [[Term Arithmatic\_Operator]\* \( [Term Arithmatic\_Operator Term ]\) [Arithmatic\_Operator Term] +]] |  |
| 10 | Expression | [String |Term | Equation] |  |
| 11 | Datatype | [int| float| string] |  |
| 12 | Condition\_Operator | [<|>|=|<>] |  |
| 13 | Condition | Identifier Condition\_Operator  term |  |
| 14 | Boolean\_Operator | [)&&( | )\|\|(] |  |
| 15 | FunctionName | [A-Za-z]+[0-9]\*[A-Za-z]\* [\_[A-Za-z0-9]+]\* |  |
| 16 | Parameter | Datatype Identifiers |  |
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