|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Family lex | Lexemes | Token name | Attribute name | Pattern |
| ws |  | - | - |  |
| \t | - | - | \t |
| \n | - | - | \n |
| \r | - | - | \r |
| KeyWords | incase | INCASE | - | incase |
| otherwise | OTHERWISE | - | otherwise |
| during | DURING | - | during |
| int | INT | - | int |
| float | FLOAT | - | float |
| Id’s | Any id | ID | Pointer to table of symbols | letter\_ ( letter\_ I digit ) \* |
| Constant | NUM | NUM | Pointer to table of numbers | digit digits optionalFraction optionalExp |
| Separators | ( | LPAR | - | ( |
| ) | RPAR | - | ) |
| { | LBRA | - | { |
| } | RBRA | - | } |
| , | COMA | - | , |
| ; | SEMI | - | ; |
| Operators | = | ASSIGN | - | = |
| < | RELOP | LT | < |
| > | RELOP | GT | > |
| == | RELOP | EQ | = |
| >= | RELOP | GE | >= |
| <= | RELOP | LE | <= |
| <> | RELOP | NE | <> |

1. delim: [ \n\t\r]
2. **digit**: [0-9]
3. **digits**: digit\*
4. letter\_: [A-Za-z\_]
5. number: digits
6. separator: [(){},;]
7. **optionalFraction**: (.digits | ε)
8. **optionalExp**: (E(-|+|ε) digits | ε)