Group 7
TokenTypes
ACE LANGUAGE

1. **TokenType_IDENTIFIER :**

   Identifier is assigned to any variable name or function name. It can also be used for many other programming constructs.

   ## Regular Language :

   [a - z , A - Z, _] [a - z , A - Z , 0 - 9 , _]*

2. **TokenType_NUM:**

   This token is assigned to numbers, specifically integers in our language.

   ## Regular Language :

   0 | [1 - 9] [0 - 9]*

3. **TokenType_OPERATOR:**

   This token is assigned to all the operators of our language.

   ## Regular Language :

   + | ++ | - | -- | * | / | > | >= | <= | < | = | == | ! | ~ | & | && | | | || | # | ^ | %

4. **TokenType_KEYWORD:**

   The KEYWORD token denotes the reserved keywords in our language.

   ## Regular language:

"if" | "else_if" | "else" | "num" | "char" | "flag" | "str" | "void" | "true" | "false"| "len"| "headof"| "tailof"| "main" | "echo"| "floop"| "wloop"| "func" | "cons" | "cook" | "return" | "try"| "catch" | "throw"

5. **TokenType_CONSTANT:**

All the characters between Quotations (" " or '') are put in the CONSTANT class.

The Regular Language :

" .*? " | ' .*? '

6. **TokenType_OTHER:**

OTHER Class is for the characters which define scope or end of line.

Regular Language :

'[' | ']' | '{' | '}' | '(' | ')' | ';' | ':' | '\'

7. **TokenType_EOF:**
EOF is a token which simply denotes the end of the input file in our language ace