TOKENS

RESERVED KEYWORDS

FUNCTION	WHILE	IF	TRUE	TO	RETURN	AND	INPUT
VAR	FOR	ELIF	FALSE	END	CONTINUE	OR	INPUT_INT
		ELSE		STEP	BREAK	NOT	INPUT_FLOAT
				THEN			

Operators:

- Arithmetic Operators: +, -, *, /, ^, =, %
- Relational Operators: ,>, <, >=, <=, !=, ==
- Logical Operators: AND, OR, NOT (Reserved Keywords)

Special Symbols and Punctuation

- Parentheses: (,)
- Quotation Marks for Strings: "

Comments: #

Identifiers: Can be any string of characters and digits [A-Za-z][A-Za-z0-9_]*

Integer constants (INT): Numbers without decimal point.

Real constants (FLOAT): Numbers with decimal point.

String constants (STRING): Limited by “ ”

EXAMPLE PROGRAMS

PROGRAMA 1. CALCULAR FACTORIAL

```
FUNCTION calcularFactorial(n)
     VAR factorial = 1;
     IF n < 0 THEN
        RETURN -1
     ELIF n == 0 THEN
          RETURN 1
     ELSE
          WHILE n > 1 THEN
               factorial = factorial * n
               n = n - 1
          END
     END
     RETURN factorial
END

PRINT("Ingresa un numero entero")
VAR n = INPUT_INT()
VAR resultado = calcularFactorial(n)
IF resultado == -1 THEN
    PRINT("El Factorial no esta definido para números
negativos")
ELSE
    PRINT("El factorial es: " + resultado)
END
```

PROGRAMA 2. SABER SI ES PRIMO

```
FUNCTION esPrimo(x)
    IF x <= 1 THEN RETURN FALSE
    VAR i = 2
    WHILE i <= x / 2 THEN
        IF x % i == 0 THEN
            RETURN FALSE
        END
        i = i + 1
    END
    RETURN TRUE
END

PRINT("Ingresa un numero entero")
VAR n = INPUT_INT()
IF esPrimo(n) THEN
    PRINT(n + " es un numero primo")
ELSE
    PRINT(n + " NO es un numero primo")
END
```

PROGRAMA 3. SUMA DE PARES

```
VAR suma = 0
VAR temp = 0
PRINT("Valor de n: ")
VAR n = INPUT_INT()
PRINT("Valor de m: ")
VAR m = INPUT_INT()

IF n > m THEN
     temp = n
     n = m
     m = temp
END

temp = n
WHILE temp <= m THEN
     IF temp % 2 == 0 THEN
          suma = suma + temp
     END
     temp = temp + 1
END

PRINT("La suma entre " + n + " y " + m + "es: " + suma)
```

PROGRAMA 4. Celsius a Fahrenheit

```
FUNCTION convertirAFahrenheit(celsius)
     RETURN (celsius*9/5) + 32
END


PRINT("Ingrese la temperatura en grados centigrados: ")
VAR celsius = INPUT_FLOAT()
VAR fahrenheit = convertirAFahrenheit(celsius)
PRINT(celsius + " grados celsius son equivalentes a " +
fahrenheit + " fahrenheit")
```