

PYLOX

Inspired by Python + Lox

No semicolons :)

1) Variables:

Data Types: int, float, boolean, char

int a = 5

float d = 6.0

char b = 'h'

boolean has two values - true and false

2) Arithmetic operators:

- For addition : +
Example :- sum= a + b
- For subtraction: -
- For multiplication : *
- For division: /

3) Comparison operators:

- Greater than : >
Ex: a is greater than b
a>b
- Less than : <
- Equal : ==
- Not equal : !=
- Greater than or equal to: >=
- Less than or equal to: <=

4) Functions :

Using keyword "func" to declare functions, followed by function name

Syntax-

```
func function_name : return_type : parameters
{
    }
}
```

Example:

```
func add : int : int a, int b
{
    return a+b
}
```

5) Comments:

Hashtags(#) at the start and end of the comment
Ex: # this is a comment #

6) Print :

Using the keyword 'out' to print anything.
Ex : out("transpiler")

7) Input:

Using keyword 'in' to accept values

8) Conditional

- If statement
using keyword "if"
- Else statement
using keyword "else"
- Else-if statement
using keyword "elif"

Ex: if boolean_expression : { statement }

if 7>8 : { statement }

9) Loops

- For loop
using keyword "for"
- while loop
using keyword "while"

They also have keywords

- break
- continue

10) Logical operators

- and
- or
- not