**Part1**

Constants

Fixed values such as numbers, letters and strings, values that does not change.

Reserved Words

Words that you cant use for other purpose beyond it’s self.

Diagrama

Descrição gerada automaticamente com confiança baixa

Variables

It’s a piece of memory that you give a name and asks python to link that name with its location. As logical as it sounds, in variables, you can change the content and the values in a statement.

Variables Name Rules

* Must starts with a letter or underscore \_
* Its Case Sensitive

Diagrama, Texto

Descrição gerada automaticamente

**Part2**

Numeric Expressions

Tabela

Descrição gerada automaticamente

Order of Evaluation

1 - Parenthesis

2 – Power

3 – Multiplication, Division and Remainder

4 – Subtraction and Addition

5 – Left to Right

Type

In Python Variables, literals and constants have a “type”.

Python knows the difference between an integer number and a string.

Some operations are prohibited, if I add 1 to the string ‘hello’ python won’t know what to do with this sentence. A Traceback will show up as an TypeError.

Numbers have two main types

* Integer – negative and positive numbers
* Floating Point Numbers – the ones that has decimal parts

Functions float() and int() converts what’s inside to the type wanted

Type Conversions

* int(a) - converts the value to Integer
* float(b) – converts the value to Floating Point

User Input

Input functions pause and read data from the keyboard, returning a string of characters.

Comments in Python

Anything after a # is ignored by Python.