# Generic

REPL

Read Evaluate Print Loop

### IDE

jupyter

spyder

VScode

visual studio

IDLE

pycharm

### Basics

class

### Data Types

int

float

str

bool

True

False

complex

imaginary

## Operators

### arth

+

-

/

\*

% modulo (remainder)

=

// floor division

\*\* power of

#### multiple assignment

x = y = z = 100

x , y , z = 100, 200, "john snow"

## Functions

### general

print()

type()

len()

## strings

### features:

text data

double quotes or single quotes

index

negative index

IndexError

slice

part (or whole)

no IndexError

step

| I | D | L | Y |
| --- | --- | --- | --- |
| 0 | 1 | 2 | 3 |
| -4 | -3 | -2 | -1 |

immutable

### string functions

capitalize() lower() upper() title()

count() index()

isnumeric() isalpha() isalnum()

isupper() islower()

## list

features:

any data

[ ]

index

negative index

IndexError

slice

part (or whole)

no IndexError

step

mutable

### list functions

insert() append() extend()

remove() pop() clear()

sort() reverse()