## Basics

REPL

Read Eval Print Loop

### IDEs

IDLE

PyCharm

VsCode

Visual Studio

Jupyter

Spyder

## Naming Rules

Data & functions:

can have :

alphabets, numbers, underscore

starts with

alphabets, underscore

\_hi =

ia =

room1 =

room\_1 =

temp\_to\_increase\_room\_1

~~1room~~

~~room-1~~

## Data Types

int integer

whole numbers

float floating point numerals

decimals

str string (text)

complex (7 + 6i)

## Comments

# single line comments

## Functions

### general

print

type

len

### cast (convert)

int

float

str

## Operators

### arithmetic

+ add

- subtracts

/ div

\* mul

% modulo

(remainder)

// floor division

\*\* power

= assignment

### logical

## Strings

text

index

out of bound error

negative index

slice

no error

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| R | o | g | e | r |
| 0 | 1 | 2 | 3 | 4 |
| -5 | -4 | -3 | -2 | -1 |

immutable

functions:

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

count, index, rfind

replace

where in germany

## Data Structures

### list

index

negative index

slice

step

mutable

functions:

count, index

reverse, sort

insert, append, extend

remove, pop, clear

nesting

extras:

exceptional handling