

OPERATIONS

esponential	**
remainder	%

Parenthesis have priority

STRINGS

quotes	'
double quotes	"
wrap quotes	"""

PRINT

```
# Normal print
print(var)

# Print formatting
print('My number is: {}, and my
name is: {}'.format(v1,v2))

# Print formatting 2
# (with order)
print('My number is: {one}, and
my name is: {two}'.format(one=-
var1,two=var2))
```

VARIABLES NAMES RULES

- . cannot start with numbers
- . cannot start with special char
- . underscore to chain_words

VARIABLE TYPES

Lists	it uses []
create	list = ['a','b','c'] or list = [1,2,3]
append	list.append('d')
nested	nest = [1,2,3,[4,5,['target']]]
- indexing	nest[3][2][0] = "target"
Tuples	uses () cannot change
create	t = (1,2,3)
Dictionaries	it uses {} has keys and values
create	d = { 'key1':'item1', 'key2':'item2'}
indexing	d['key1'] = 'item1'
indexing 2	d[key1][0:3] = 'ite'
Sets *	it uses {} has unique values
create	s = {1,2,2,2,2,3,3,3,4} = 1,2,3,4
append	s.add(5)
Booleans	True, False

sets differs from dictionary because has no keys and has unique values

INDEXING

```
s = 'hello'
# Indexing starts at 0
s[0]= 'h'
# the last value is excluded
s[0:2] = 'he'
```

LOOPS

```
if 1 < 2:
    print("Yep!")

if else 1 > 2:
    print('first')
else:
    print('last')

if elif 1 == 2:
    print('first')
elif 3 == 3:
    print('middle')
else:
    print('Last')

for seq = [1,2,3,4,5]
for item in seq:
    print(item)

while i = 1
while i < 5:
    print('i is: {}'.format(i))
    i = i+1
```

* **elif**: will execute only the first true condition



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FUNCTIONS

range(num) create range from 0 to x

list(range(num)) convert range to list

list comprehension
out = [var**2 for var in x]

functions *
def fun(param1='default'):
print('Hello ' + param1)

return return a value

print print a value

lambda expressions *
lambda var: var*2

map * map(function,seq)

filter * filter(function,seq)

In functions param1 defines the default parameter if there is no input.

lambda: take what: give what.

map: it applies a function to something. map(what, to_what). Also, the **list** is necessary to have the right output.

apply works on a row / column basis of a DataFrame, **applymap** works element-wise on a DataFrame, and **map** works element-wise on a Series.

filter: takes out only the results of a certain condition

METHODS

string.lower() 'aaaa'

string.upper() 'AAAA'

string.split() * 'ciao' 'sono' 'io'

s.split('symbol') split using a symbol

dict.keys() dict_keys(['key1', 'key2'])

dict.items() dict_items([('key1', 'item1')])

list.pop(n) take out the lth element

var in [list] check in a list - bool

split() supports also **indexing** after:
str.split()[0]



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