GETTING STARTED WITH PYTHON



VARIABLES:

Used to store values (values can be int, float, string, boolean, complex numbers, list, dictionary, tuple)

01 ASSIGNMENT: a = 5

02> DATA TYPES :

a) Boolean b) Number c) String d) List e) Dictionary f) Tuple

STRINGS:

Are a series of character surrounded by quotes.

01 ASSIGNMENT : x = "Hello World!"

OPERATIONS :

a) Multiplication: x *2 = "Hello World!Hello World!"

b) Concatenation: x + x = "Hello World!Hello World!"

c) Conditionals: d in x = True

LISTS:

Stores a series of items and mutable.

O1 ASSIGNMENT: x = ['a', 'b', 'c', 'd']

02 OPERATIONS :

a) Selecting element at "i"th index: x[i]

b) Selecting last element: x[-1]

c) Slicing from "i"th to "j"th index(including j): x[i:j+1]

d) Add "e": x.append('e')

e) Delete "e" : x.remove('e')

f) Delete element at "i"th index: del x[i]

g) Addition of lists:

x + x = ['a', 'b', 'c', 'd', 'a', 'b', 'c', 'd'] or x. extend(x)

h) Multiplication: x * 2 = ['a', 'b', 'c', 'd', 'a', 'b', 'c', 'd']

i) Sorting: x.sort()

j) Reversing: x.reverse()

03 LIST COMPREHENSION: x = [a*2 for a in range(o,3)]

OPERATORS:

OID ARITHMETIC OPERATORS :

a) Addition: a + 5 c) Multiplication: a * 5 e) Exponentiation: a * * 5 f) Remainder: a % 5

02 COMPARISON OPERATORS:

Operator	Code	Result
-	3==5	False
!=	3!=5	True
>	3>4	False
<	3<4	True
>=	3>=3	True
<=	5<=4	False

US LOGICAL OPERATORS:

Operator	Code	Result
AND	4> 2 and 4 > 5	False
OR	4>3 or 4>2	True
NOT	not(1>5)	True

04 MEMBERSHIP OPERATORS:

Operator	Code	Result	
IN	a = 'Hello World' 'W' in a	True	
NOT IN	a = 'Hello World' 'X' not in a	True	

05 IDENTITY OPERATORS:

x1 = 5	# Output: False
y1 = 5	print(x1 is not y1)
x2 = 'Hello'	# Output: True
y2 = 'Hello'	print(x2 is y2)
x3 = [1,2,3]	# Output: False
y3 = [1,2,3]	print(x3 is y3)