Python

Logical Operators

and

and

Returns True if both statements are true

x = 4 x < 5 and x < 10 Output: True

and

Returns False if both statements are false

x = 4 x < 5 and x > 10 Output: False

or

or

Returns True if one of the statements are True

$$x = 4$$
 $x < 5$ or $x > 10$ Output: True

or

Returns False if two of the statements are False

$$x = 4$$
 $x > 5$ or $x > 10$ Output: False

not

not

Reverse the result, returns False if the result is True

$$x = 4$$
 not(x < 5 or x < 10) Output: False

Boolean operators

There are three boolean operators in python:

Boolean operator	Boolean operation		Result
and	False and	False	False
	True and	True	True
	True and	False	False
or	False or	False	False
	True or	True	True
	True or	False	True
not	not	True	False
	not	False	True

is is not

<u>is</u>

Returns true if both variables are the same object

is not

Returns true if both variables are not the same object

Albert Zaqaryan Lesson 6

in not in

Python Membership Operators

<u>in</u>

Returns True if a sequence with the specified value is present in the object

not in

Returns True if a sequence with the specified value is not present in the object

- 1. Write a python program to check have your name 'a' or no. You have 2 input.
- Write a python program to check if there are bananas, oranges and apples in your fridge:

3. Given a number x. Check following conditions: x is less or equal to -8 or x is greater than 12 x is greater than 10 and is less or equal to 50 x is greater than -10 and is less than 10 x isn't equal to 20 or x is greater than 50 Print the results (they should be True or False)

4. Write a python program to check if there are bananas, oranges and apples in your fridge, and if you don't have one of them you should go buy this, and check have you at home light if not, take those items out of the fridge: