05-logic

September 16, 2022

1 Logical operators

Logical operator perform logic operations: - and \dots - or \dots - not \dots - is - returns true if left and right operands refer to the same object, false otherwise. - in - returns true if and item belongs to a list, false otherwise.

```
[1]: S = [1, 2, 3]
[2]: 1 in S
[2]: True
[3]: (1 in S) and (2 in S)
[3]: True
[4]: (1 in S) and (4 in S)
[4]: False
[5]: (1 in S) and not (4 in S)
[5]: True
[6]: (1 in S) or (4 in S)
[6]: True
[7]: S is [1, 2, 3]
[7]: False
[8]: R = S
     R is S
[8]: True
[9]: id(S) == id(R)
```

[9]: True

[10]: id(R)

[10]: 2524502894656

[11]: id(S)

[11]: 2524502894656