Python Logical Operators

Overview

Logical operators perform Logical **AND**, Logical **OR**, and Logical **NOT** operations.

Operator	Description	Syntax
and	Logical AND: True if both the operands are true	x and y
or	Logical OR: True if either of the operands is true	x or y
not	Logical NOT: True if an operand is false	not x

The truth table for all combinations of values of X and Y.

X	Y	X and Y	X or Y	not(X)	not(Y)
T	T	T	T	F	F
T	F	F	T	F	T
F	T	F	T	T	F
F	F	F	F	T	T

Example:

```
# Examples of Logical Operator
x = True
y = False

# Print x and y is False
print(x and y)

# Print x or y is True
print(x or y)

# Print not x is False
print(not x)
```

output:

```
False
True
False
```