**Logical Operators**

The logical operators are used to perform logical operations on Boolean values.  
Gives

True

or

False

as the result.

Following are the logical operators

* and
* or
* not

Logical AND Operator

Gives

True

if both the booleans are true else, it gives

False

**Code**



1

print(True and True)

PYTHON

**Output**



True

**Examples of Logical AND**

**Code**



1

print((2 < 3) and (1 < 2))

PYTHON

*Step by Step Explanation*



(2 < 3) and (1 < 2)

True and (1 < 2)

True and True

**Output**



True

Logical OR Operator

Gives

True

if any one of the booleans is true else, it gives

False

**Code**



1

print(False or False)

PYTHON

**Output**



False

**Examples of Logical OR**

**Code**



1

print((2 < 3) or (2 < 1))

PYTHON

*Step by Step Explanation*



(2 < 3) or (2 < 1)

True or (2 < 1)

True or False

**Output**



True

Logical NOT Operator

Gives the opposite value of the given boolean.

**Code**



1

print(not(False))

PYTHON

**Output**



True

**Examples of Logical NOT**

**Code**



1

print(not(2 < 3))

PYTHON

*Step by Step Explanation*



not(2 < 3)

not(True)

False

**Output**



False

Summary

1. Logical *AND* Operator gives

True

 if all the booleans are true.

1. Logical *OR* Operator gives

True

 if any of the booleans are true.

1. Logical *NOT* Operator gives the opposite value

Notes