Logical Operators

Logical operators perform **Logical AND**, **Logical OR**, and **Logical NOT** operations. It is used to combine conditional statements.

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

Example: Logical Operators in Python

- Python3

```python
# Examples of Logical
Operator
a = True
b = False

# Print a and b is False
print(a and b)

# Print a or b is True
print(a or b)

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

Output

```
False
True
False
```

--------X------------X more examples involving variables and combination of if statements with and-or operators

```python
a = 0
b = 10

if a or b :
    print('One of the Variable is not Null')
else:
    print('Both Variables are Null')
```

Output

```
One of the Variable is not Null
```

```python
a = 0
b = 0

if a and b:
    print('Both the variables are not Null')
else:
    print('Both the variables are Null')
```

Output
```
Both the variables are Null
```