Cheat Sheet

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

PYTHON

```
1   print(True and True)
```

Output

      True

Examples of Logical AND

Code

PYTHON

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

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

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

PYTHON

```
1   print(False or False)
```

Output

```
False
```

Examples of Logical OR

Code

PYTHON

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

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

PYTHON

```python
1   print(not(False))
```

Output

```
True
```

Examples of Logical NOT

Code

PYTHON

```python
1   print(not(2 < 3))
```

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.

2. Logical *OR* Operator gives   True   if any of the booleans are true.

3. Logical *NOT* Operator gives the opposite value

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