

Comparison Operators

In [1]: `10 == 10`

Out[1]: True

In [2]: `10 != 50`

Out[2]: True

In [3]: `'Vanilla' == 'Vanilla'`

Out[3]: True

In [4]: `x='Vanilla'`
`y='Chocolate'`
`x!=y`

Out[4]: True

In [5]: `10 < 50`

Out[5]: True

In [6]: `10 <= 10`

Out[6]: True

Logical Operators

Operator	Description
and	Returns True if both statements are true
or	Returns True if one of the statements is
true	
not	Returns the result, returns False if the
result is true	

```
In [15]: ##Operator      Description
##and          Returns True if both statements are true
##or           Returns True if one of the statements is true
##not          Returns the result, returns False if the result is true

(10 > 50) and (50 > 10)
```

Out[15]: False

```
In [16]: ('Vanilla' > 'Chocolate') and (50>10)
```

```
Out[16]: True
```

```
In [17]: ('Vanilla' > 'Chocolate') or (50<10)
```

```
Out[17]: True
```

```
In [18]: not (50>10)
```

```
Out[18]: False
```

Membership Operators

```
In [19]: ice_cream = 'I love chocolate ice cream'  
'love' in ice_cream
```

```
Out[19]: True
```

```
In [20]: scoops = [1,2,3,4,5]  
6 not in scoops
```

```
Out[20]: True
```