RELATIONAL OPERATORS

PYTHON BASICS

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TOPIC OUTLINE

Equal to Operator

Not Equal to Operator

Greater than Operator

Less than Operator

Greater than or Equal to Operator

Less than or Equal to Operator

RELATIONAL OPERATORS

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Relational operators are used to **compare** two values or expressions. They evaluate the relationship between the operands and return a Boolean value **(`True` or `False`)**. These operators are commonly used in decision-making statements like **`if-else`** and **`for`** loops.

EQUAL TO OPERATOR

Equal to **(==)** operator evaluates if two operands are equal. It returns **`True`** if the values are **equal**, and `False` otherwise.

example

```
a = 5

b = 5

a == b

# evaluates to True
```

```
a = 0

b = 5

a == b

# evaluates to False
```

NOT EQUAL TO OPERATOR

Not equal to **`(!=)`** operator evaluates if two operands are not equal. It returns **`True`** if the values are **not equal**, and `False` otherwise.

example

```
a = 5

b = 5

a != b

# evaluates to False
```

```
a = 0

b = 5

a != b

# evaluates to True
```

GREATER THAN OPERATOR

Greater than **(>)** operator returns **`True`** if the left operand is **greater** than the right operand, and `False` otherwise.

example

```
a = 5
b = 0
a > b
# evaluates to True
```

```
a = 0
b = 5
a > b
# evaluates to False
```

LESS THAN OPERATOR

Greater than **(<)** operator returns **`True`** if the left operand is **less** than the right operand, and `False` otherwise.

example

```
a = 5
b = 0
a < b
# evaluates to False
```

```
a = 0
b = 5
a < b
# evaluates to True
```

GREATER THAN OR EQUAL OPERATOR

Greater than or equal **(>=)** returns **`True`** if the left operand is **greater than or equal** to the right operand, and `False` otherwise.

example

```
a = 3

b = 3

a >= b

# evaluates to True
```

```
a = 5

b = 3

a >= b

# evaluates to True
```

LESS THAN OR EQUAL OPERATOR

Less than or equal **(<=)** returns **`True`** if the left operand is **less than or equal** to the right operand, and `False` otherwise.

example

```
a = 3

b = 3

a <= b

# evaluates to True
```

```
a = 5

b = 3

a <= b

# evaluates to False
```

LABORATORY