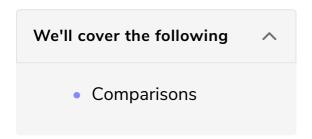
Comparison Operators

Now, we'll learn how to perform comparisons in Python using comparison operators.



Comparison operators can be used to compare values in mathematical terms.

Operator	Purpose	Notation
>	Greater Than	In-fix
<	Less Than	In-fix
>=	Greater Than or Equal To	In-fix
<=	Less Than or Equal To	In-fix
==	Equal to	In-fix
is	Equal to	In-fix
is not	Not Equal To	In-fix

Comparisons

The result of a comparison is always a bool.

If the comparison is correct, the value of the bool will be True. Otherwise, its value will be False.

Let's look at a few examples:

```
num1 = 5
num2 = 10
num3 = 10
print(num2 > num1)  # 10 is greater than 5
print(num1 > num2)  # 5 is not greater than 10

print(num2 is num3)  # Both have the same value
print(num3 is not num1)  # Both have different values

print(3 + 10 == 5 + 5)  # Both are not equal
print(3 <= 2)  # 3 is not less than or equal to 2</pre>
```

As we can see in **line 4**, num2 is indeed greater than num1. Hence, the result is True. On the other hand, **line 5** contains an incorrect comparison, which results in False.

Next, we'll study the **assignment operators**.