

Assignment Operators

This lesson showcases Python's various assignment operators and their purpose.





We'll cover the following ^

- Assigning Values
- The Other Operators

This is a category of operators which is used to assign values to a variable. The `=` operator we've used until now is an assignment operator, but not the only one.

Here's a list of all the assignment operators supported in Python:

Operator	Purpose	Notation
<code>=</code>	Assign	In-fix
<code>+=</code>	Add and Assign	In-fix
<code>-=</code>	Subtract and Assign	In-fix
<code>*=</code>	Multiply and Assign	In-fix
<code>/=</code>	Divide and Assign	In-fix
<code>//=</code>	Divide, Floor, and Assign	In-fix

  Operator	Purpose	Notation  
**=	Raise power and Assign	In-fix
%=	Take Modulo and Assign	In-fix
=	OR and Assign	In-fix
&=	AND and Assign	In-fix
^=	XOR and Assign	In-fix
>>=	Right-shift and Assign	In-fix
<<=	Left-shift and Assign	In-fix

Assigning Values

Let's go through a few examples to see how values are assigned to variables.

Variables are **mutable**, so we can change their values whenever we want!

```

year = 2019
print(year)

year = 2020
print(year)

year = year + 1 # Using the existing value to create a new one
print(year)

```





One thing to note is that when a variable, `first`, is assigned to another variable, `second`, its value is **copied** into `second`. Hence, if we later change the value of `first`, `second` will remain unaffected:

```
first = 20
second = first
first = 35 # Updating 'first'

print(first, second) # 'second' remains unchanged
```



The Other Operators

Below, we can see some of the assignment operators we talked about in action:

```
num = 10
print(num)

num += 5
print(num)

num -= 5
print(num)

num *= 2
print(num)

num /= 2
print(num)

num **= 2
print(num)

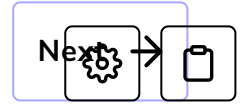
# Try all the others here!
```




In the next lesson, we'll study **logical operators**.



Comparison Operators



Logical Operators

 Completed



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