Assignment Operators

Using the assignment operators, the right expression's value is assigned to the left operand.

Ex: a=10

Name=”datapro”

There are some examples of assignment operators like =, +=, -=, \*=, %=, \*\*=, //=. In the below table, we explain the works of the operators.

|  |  |
| --- | --- |
| **Operator** | **Description** |
| = | It assigns the value of the right expression to the left operand. |
| += | By multiplying the value of the right operand by the value of the left operand, the left operand receives a changed value. For example, if a = 10, b = 20 => a+ = b will be equal to a = a+ b and therefore, a = 30. |
| -= | It decreases the value of the left operand by the value of the right operand and assigns the modified value back to left operand. For example, if a = 20, b = 10 => a- = b will be equal to a = a- b and therefore, a = 10. |
| \*= | It multiplies the value of the left operand by the value of the right operand and assigns the modified value back to then the left operand. For example, if a = 10, b = 20 => a\* = b will be equal to a = a\* b and therefore, a = 200. |
| %= | It divides the value of the left operand by the value of the right operand and assigns the reminder back to the left operand. For example, if a = 20, b = 10 => a % = b will be equal to a = a % b and therefore, a = 0. |
| \*\*= | a\*\*=b will be equal to a=a\*\*b, for example, if a = 4, b =2, a\*\*=b will assign 4\*\*2 = 16 to a. |
| //= | A//=b will be equal to a = a// b, for example, if a = 4, b = 3, a//=b will assign 4//3 = 1 to a. |

**Program Code:**

Now we give code examples of Assignment operators in Python. The code is given below -

a = 32 # Initialize the value of a

b = 6 # Initialize the value of b

**print**('a+=b:', a+=b)

**print**('a-=b:', a-=b)

**print**('a\*=b:', a\*=b)

**print**('a%=b:', a%=b)

**print**('a\*\*=b:', a\*\*=b)

**print**('a//=b:', a//=b)

**Output:**

Now we compile the above code in Python, and after successful compilation, we run it. Then the output is given below -

a=b: False

a+=b: 38

a-=b: 26

a\*=b: 192

a%=b: 2

a\*\*=b: 1073741824

a//=b: 5

example

a = 32 # Initialize the value of a

b = 6 # Initialize the value of b

a+=b

print('a+=b:', a)

a-=b

print('a-=b:', a)

a\*=b

print('a\*=b:', a)

a%=b

a=5

b=2

print('a%=b:', a)

a\*\*=b

print('a\*\*=b:', a)

a//=b

print('a//=b:', a)