**OPERATORS**

Operators are used to perform operations on variables and values.

Python divides the operators in the following groups:

* Arithmetic operators
* Assignment operators
* Comparison operators
* Logical operators
* Identity operators
* Logical operators
* Identity operators
* Membership operators
* Bitwise operators

**Arithmetic Operators**

Arithmetic operators are used with numeric values to perform common mathematical operations.

|  |  |
| --- | --- |
| **Operator** | **Name** |
| + | Addition |
| - | Subtraction |
| \* | Multiplication |
| / | Division |
| % | Modulus |
| \*\* | Exponentiation |
| // | Floor division |

**Assignment Operators**

Assignment operators are used to assign values to variables

|  |  |  |
| --- | --- | --- |
| Operator | Example | Same as |
| = | X=5 | X=5 |
| += | X+=3 | X=X+3 |
| -= | X-=3 | X=X-3 |
| \*= | X\*=3 | X=X\*3 |
| /= | X/=3 | X=X/3 |
| %= | X%=3 | X=X%3 |
| //= | X//=3 | X=X//3 |
| \*\*= | X\*\*=3 | X=X\*\*3 |
| &= | X&=3 | X=X&3 |
| |= | X|=3 | X=X|3 |
| ^= | X^=3 | X=X^3 |
| >>= | X>>=3 | X=X>>3 |
| <<= | X<<=3 | X=X<<3 |