**Operators in Python:**

1. Arithmetic Operators
2. Relational Operators
3. Assignment Operators
4. Logical Operators
5. Membership Operators
6. Identity Operators

Arithmetic

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

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| Relational |
| |  |  |  | | --- | --- | --- | | **Operator** | **Name** | **Example** | | == | Equal | x == y | | != | Not equal | x != y | | > | Greater than | x > y | | < | Less than | x < y | | >= | Greater than or equal to | x >= y | | <= | Less than or equal to | x <= y | |

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| Assignment |
| |  |  |  | | --- | --- | --- | | **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 | |

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| Logical |
| |  |  |  | | --- | --- | --- | | **Operator** | **Description** | **Example** | | and | Returns True  if both statements  are true | x < 5 and  x < 10 | | or | Returns True  if one of the  statements is true | x < 5 or x < 4 | |

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| Membership Operators |
| |  |  |  | | --- | --- | --- | | **Operator** | **Description** | **Example** | | in | Returns True if a sequence with the specified value is present in the object | x in y | | not in | Returns True if a sequence with the specified value is not present in the object | x not in y | |

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| Identity Operators |
| |  |  |  | | --- | --- | --- | | **Operator** | **Description** | **Example** | | is | Returns True if both  variables are the same  object | x is y | | is not | Returns True if both variables are not the same object | x is not y | |