Operators in Python

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Types of Operators in Python

Python has several types of operators.

1. **Arithmetic Operators**
2. **Comparison Operators**
3. **Assignment Operators**
4. **Logical Operators**
5. **Bitwise Operators**
6. **Membership Operators**
7. **Identity Operators**





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1. Arithmetic Operators

These operators are used for mathematical calculations.

Operator	Meaning	Example
+	Addition	5 + 3 = 8
-	Subtraction	5 - 3 = 2
*	Multiplication	5 * 3 = 15
/	Division	5 / 2 = 2.5
%	Modulus (remainder)	5 % 2 = 1
**	Power	2 ** 3 = 8
//	Floor Division	5 // 2 = 2







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2. Comparison Operators

These operators compare two values and return True or False.

Operator	Meaning
==	Equal
!=	Not equal
>	Greater than
<	Less than
>=	Greater than equal
<=	Less than equal

3. Assignment Operators

These operators are used to assign values to variables.

Operator	Example
=	x = 5
+=	x += 3
-=	x -= 3
*=	x *= 3
/=	x /= 3
%=	x %= 3
**=	x **= 2
//=	x //= 2

4. Logical Operators

These operators are used to combine conditions.

Operator	Meaning
and	**Both conditions must be True**
or	**At least one condition True**
not	**Reverse the result**

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5. Membership Operators

These operators check whether a value exists in a sequence.

Operator	Meaning
in	**Value exists**
not in	**Value does not exist**

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6. Identity Operators

These operators check whether two variables refer to the same object in memory.

Operator	Meaning
is	**Same object**
is not	**Different object**