

Operators in Python:

Operators are **symbols** that perform operations on variables and values. Operators are the foundation for **conditions, loops, calculations**.

Example: $2 + 3 = 5$ (here $+$ is an operator).

Without operators, programs can't **calculate** anything. They are used in **math problems, decisions, comparisons, and logic building**.

- Arithmetic Operators (+, -, *, /, //, %, **)
- Comparison Operators (==, !=, >, <, >=, <=)
- Logical Operators (and, or, not)
- Assignment Operators (=, +=, -=, etc.)

Arithmetic Operators:

Used for **mathematical calculations**.

Operator	Meaning	Example Output	
+	Addition	$5 + 3$	8
-	Subtraction	$10 - 4$	6
*	Multiplication	$2 * 5$	10
/	Division	$10 / 3$	3.333...
//	Floor Division (gives whole number)	$10 // 3$	3
%	Modulus (gives remainder)	$10 \% 3$	1
**	Exponent (power)	$2 ** 3$	8