

# Extended Arithmetic Operators in Python

## Modulo (%)

Returns the remainder of a division.

Example:  $10 \% 3 \rightarrow 1$

Use Case: Check if a number is even or odd.

## Floor Division (//)

Returns the whole number part of a division (ignores decimals).

Example:  $10 // 3 \rightarrow 3$

Use Case: Count how many full items fit into a total.

## Exponentiation (\*\*)

Raises a number to a power.

Example:  $2 ** 3 \rightarrow 8$

Use Case: Squaring, cubing, or powers.