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AGENDA

Arithmetic Operators Examples

Precedence and Associativity of Python Arithmetic Operators

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ARITHMETIC OPERATOR

Operator	Name
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus
**	Exponent
//	Floor Division

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ADDITION OPERATOR (+)

- Addition of Two Integers
- Addition of Integer and Float Numbers
- Addition of Float and Complex Numbers

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SUBTRACTION OPERATOR (-)

- Subtraction of Two Integers
- Subtraction of Integer and Float Numbers
- Subtraction of Float and Complex Numbers

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MULTIPLICATION OPERATOR (*)

- Multiplication of Two Integers
- Multiplication of Integer with Float Numbers
- Multiplication of Float with Complex Numbers

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DIVISION OPERATOR (/)

- Division of Two Integers
- Division of Integer with Float Numbers
- Division of Float with Complex Numbers
- Zero Division Error

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MODULUS (REMAINDER) OPERATOR (%)

- Modulus (mod) of Two Integers
- Modulus (mod) of Integer with Float Numbers
- Modulus (mod) of Float with Complex Numbers -> **NOT POSSIBLE**

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EXPONENT (RAISED TO) OPERATOR (**)

- Exponent of Two Integers
- Exponent of Integer with Float Numbers

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FLOOR DIVISION OPERATOR (//)

- Division of Two Positive Integers
- Division of Two Negative Integers
- Division of Integer with Float Numbers

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Precedence of Python Arithmetic Operators

- Operator precedence determines the order in which operations are performed in an expression.
- In Python, arithmetic operators have the following precedence, from highest to lowest:

1. `**` (Exponentiation)
2. `*`, `/`, `//`, `%` (Multiplication, Division, Floor Division, Modulus)
3. `+`, `-` (Addition, Subtraction)

Associativity of Python Arithmetic Operators

- Associativity determines the order in which operations of the same precedence are performed.
- In Python, most arithmetic operators are left-associative, meaning they are evaluated from left to right.
- However, the exponentiation operator ** is right-associative, meaning it is evaluated from right to left.

Precedence and Associativity of Python Arithmetic Operators

Operator	Precedence	Associativity
**	1	Right To Left
*, /, //, %	2	Left To Right
+, -	3	Left To Right

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NEXT ...

Bitwise Operators

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