ARITHMETIC AND COMPARISON OPERATORS

INTRODUCTION

This chapter covers the various built-in operators, which Python has to offer.

OPERATORS

These operations (operators) can be applied to all numeric types:

Operator	Description	Example
+, -	Addition, Subtraction	10 -3
*,%	Multiplication, Modulo	27 % 7 Result: 6
	Truncation Division (also known as floordivision or floor division) The result of this division is the integral part of the result, i.e. the fractional part is truncated, if there is any.	Python3: 10 / 3 3.333333333333333333333333333333333
	It works both for integers and floating-point numbers, but there is a difference between the type of the results: If both the dividend and the divisor are integers, the result will also be an integer. If either the divident or the divisor is a float, the result will be the truncated result as a float.	we get a truncated float value as the result.
+x, -x	Unary minus and Unary plus (Algebraic signs)	-3
~X	Bitwise negation	~3 - 4 Result: -8
**	Exponentiation	10 ** 3 Result: 1000
or, and, not	Boolean Or, Boolean And, Boolean Not	(a or b) and c
in	"Element of"	1 in [3, 2, 1]
<, ≤, >, ≥, !=, ==	The usual comparison operators	2 ≤ 3
, &, ^ <, >	Bitwise Or, Bitwise And, Bitwise XOR Shift Operators	6 ³
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