Miscellaneous

Arithmetic Ops, Compound Assignment Stmts, Order of Eval

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Topics list

1. Recap on Arithmetic Operators.

2. Compound Assignment Statements

3. Order of Evaluation

Arithmetic Operators

Arithmetic Operator	Explanation	Example(s)
+	Addition	6 + 2 amountOwed + 10
-	Subtraction	6 – 2 amountOwed – 10
*	Multiplication	6 * 2 amountOwed * 10
/	Division	6 / 2 amountOwed / 10
%	Remainder	16 % 5 →1

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Compound Assignment Statements

	Full statement	Shortcut
Mathematical shortcuts	x = x + a;	x += a;
	x = x - a;	x -= a;
	x = x * a;	x *= a;
	x = x/a;	x /=a;
Increment shortcut	x = x+1;	x++;
Decrement shortcut	x = x - 1;	x--;

Arithmetic Operators

- These examples are straightforward uses of the arithmetic operators.

- However, we typically want to do more complex calculations involving many arithmetic operators.

- To do this, we need to understand the **Order of Evaluation.**

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1. Recap on Arithmetic Operators.

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Order of Evaluation

- **B**rackets **()**
- **M**ultiplication **(*)**
- **D**ivision **(/)**
- **A**ddition **(+)**
- **S**ubtraction **(-)**

BoMDAS

Beware My Dear Aunt Sally

Order of Evaluation - **Quiz**

What are the results of these calculations?

- Q1:   3+6*5-2
- Q2:   3+6*(5-2)
- Q3:   (3+6)*5-2

Questions?