PHP Operators

- Arithmetic Operators
- Assignment Operators
- Comparison Operators
- Increment / Decrement Operators
- Logical Operators

Arithmetic Operators

- [+ (Addition), - (Subtraction), * (Multiplication), / (Division), % (Modulus), ** (Exponentiation)]

- Exmaple:
  $x = 10;
  $y = 5;

  $x + $y = 16;
  $x - $y = 5;
  $x * $y = 50;
  $x / $y = 2;
  $x % $y = 0;
  $x ** $y = 100000 ;

Assignment Operators

- [+ (Addition), - (Subtraction), * (Multiplication), / (Division), % (Modulus)]

- Exmaple:
  $x = 10; Result : 10
  $x += 10; Result : 20
  $x -= 10; Result : 10
  $x *= 10; Result : 100
  $x /= 10; Result : 10
  $x %= 10; Result : 0

■ Comparison Operators

- == (Equal),
- === (Identical),
- != (Not equal),
- <> (Not equal),
- !== (Not identical),
- > (Greater than),
- < (Less than),
- >= (Greater than or equal to),
- <= (Less than or equal to),
- <=> (Spaceship)

- Exmaple:

  $x == $y :- Returns true if $x is equal to $y
  $x === $y :- Returns true if $x is equal to $y, and they are of the same type
  $x != $y :- Returns true if $x is not equal to $y
  $x <> $y :- Returns true if $x is not equal to $y
  $x !== $y :- Returns true if $x is not equal to $y, or they are not of the same type
  $x > $y :- Returns true if $x is greater than $y
  $x < $y :- Returns true if $x is less than $y
  $x >= $y :- Returns true if $x is greater than or equal to $y
  $x <= $y :- Returns true if $x is less than or equal to $y
  $x <=> $y :- Returns an integer less than, equal to, or greater than zero, depending on if $x is less than, equal to, or greater than $y. Introduced in PHP 7. demo (-1 less, same 0, greater 1)

■ Increment / Decrement Operators

- [++$x (Pre-increment), $x++ (Post-increment), --$x (Pre-decrement), $x-- (Post-decrement)]

- Exmaple:

echo $x = 10; result : 10
echo ++$x; result: 11
echo --$x; result : 10
echo $x++; result : 10
echo $x++; result : 11
echo $x--; result : 12
echo $x--; result : 11

- Logical Operators

  - [and, or, &&, ||, xor, not]

  - Exmaple:
    $x and $y - True if both $x and $y are true
    $x or $y - True if either $x or $y is true
    $x xor $y - True if either $x or $y is true, but not both
    $x && $y - True if both $x and $y are true
    $x || $y - True if either $x or $y is true
    !$x - True if $x is not true