

# Concatenation

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## Download the code used in the lesson.

concatenation.zip (/uploads/webdev/content\_media/concatenation.zip)

### Boolean variables

Boolean variables contain only TRUE or FALSE as values.

```
$var = TRUE;
```

This is boolean variable. TRUE or FALSE should not be in quotes. Then it will be considered as strings.

### Arithmetic Operations

It usually includes addition, subtraction, multiplication, division, modulus which gives the remainder of the division and exponentiation.

Example	Name	Result
$\$a + \$b$	Addition	Sum of \$a and \$b
$\$a - \$b$	Subtraction	Difference of \$a and \$b
$\$a * \$b$	Multiplication	Product of \$a and \$b
$\$a / \$b$	Division	Quotient of \$a and \$b
$\$a \% \$b$	Modulo	Remainder of \$a divided by \$b
$\$a ** \$b$	Exponentiation	Result of raising \$a to the \$b th power. Introduced in PHP 5.6

**Logical Operations**

Logical operators, Relational operators are used for comparisons. These are the valid operators for PHP. These operations either evaluate to TRUE or a FALSE state.

Example	Name	Result
\$a and \$b	And	TRUE if both \$a and \$b are TRUE, FALSE otherwise
\$a    \$b	Or	TRUE if either \$a or \$b is TRUE. If \$a is TRUE and \$b is false then also this condition will output true as one of the two options or both the option should be true in OR case
\$a xor \$b	Xor	TRUE if either \$a or \$b is TRUE, but not both; otherwise FALSE
! \$a	Not	TRUE if \$a is not TRUE, otherwise FALSE
\$a % \$b	Modulo	Remainder of \$a divided by \$b

For any queries, please write to us at [vtc-support@internshala.com](mailto:vtc-support@internshala.com) (mailto:vtc-support@internshala.com)

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