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 Nam	e Result
\$a and And \$b	TRUE if both \$a and \$b are TRUE, FALSE otherwise
	TRUE if either \$a or \$b is TRUE. If \$a is TRUE and \$b is false
\$a \$b Or	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 Xor	TRUE if either \$a or \$b is TRUE, but not both; otherwise FALSE
! \$a Not	TRUE if \$a is not TRUE, otherwise FALSE

Example Name Result

 $a \% b \ Modulo Remainder of a divided by b$