

Swapping two numbers



Two numbers can be swapped or interchanged. It means first number will become second and second number will become first.

For example

```
a = 20, b = 30  
After swapping,  
a = 30, b = 20
```

There are two methods for swapping:

- By using third variable.
- Without using third variable.

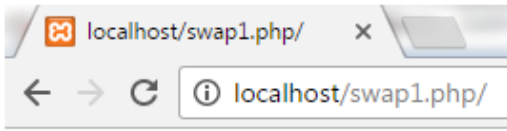
Swapping Using Third Variable

Swap two numbers 45 and 78 using a third variable.

Example:

```
<?php  
$a = 45;  
$b = 78;  
// Swapping Logic  
$third = $a;  
$a = $b;  
$b = $third;  
echo "After swapping:<br><br>";  
echo "a = ".$a." b = ".$b;  
?>
```

Output:



After swapping:

a=78 b=45

Swapping Without using Third Variable

Swap two numbers without using a third variable is done in two ways:

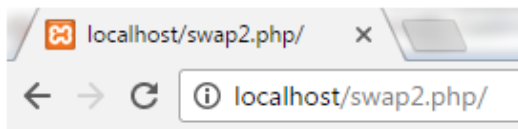
- Using arithmetic operation + and -
- Using arithmetic operation * and /



Example for (+ and -):

```
<?php
$a=234;
$b=345;
//using arithmetic operation
$a=$a+$b;
$b=$a-$b;
$a=$a-$b;
echo "Value of a: $a<br>";
echo "Value of b: $b<br>";
?>
```

Output:

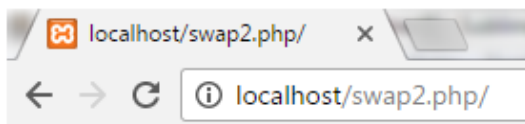


Value of a: 345
Value of b: 234

Example for (* and /):

```
<?php
$a=234;
$b=345;
// using arithmetic operation
$a=$a*$b;
$b=$a/$b;
$a=$a/$b;
echo "Value of a: $a<br>";
echo "Value of b: $b<br>";
?>
```

Output:



Value of a: 345
Value of b: 234

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