PHP: Associative Array example

Associative arrays allow us to have text instead of integers for the key.

Associative arrays allow the same key - value structure as a numerically indexed array with one huge difference: the index can be a string value.

In an associative array a key is associated with a value. No difference from a numeric array here. If you wanted to store the salaries of your employees in an array, a numerically indexed array would not be the best choice. Instead, we could use the employees names as the *keys* in our associative array, and the *value* would be their respective salary. *(www.tizag.com)*

$salaries["Bob"] = 2000;

$salaries["Carol"] = 4000;

$salaries["Ted"] = 600;

$salaries["Alice"] = 0;

echo "Bob is being paid - $" . $salaries["Bob"] . "<br />";

echo "Carol is being paid - $" . $salaries["Carol"] . "<br />";

echo "Ted is being paid - $" . $salaries["Ted"] . "<br />";

echo "Alice is being paid - $" . $salaries["Alice"];

The output looks like this:

Bob is being paid - $2000

Carol is being paid - $4000

Ted is being paid - $600

Alice is being paid - $0

*Example from www.killerphp.com:*  
  
$prices = array("tv" =>"250.00", "dvd" => "50.00", "vcr" => "2.00");  
  
  
  
echo "$prices['tv']; // output is 250.00

In the next problem, there is an associative array concerned with 3 courses you might have at a restaurant.

Using a foreach loop, you can display the contents of the associative array. You can also manipulate the data to perform calculations.

Here’s some code.

The file below is the student file and they are required to program the sections in comments where prompted.

<?php

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

file: outtotea.php

associative array

outputs the sum of the $values and then calculates 15% tip

and the average cost of the courses

\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

include('tea-header.inc');

page\_header('Costs are rising');

//initialise the sum variable

//initialise the countitem variable

$outtotea = array('dumplings'=> 8.00, 'chicken soup' => 5.00, 'spagbol' => 9.00);

foreach($outtotea as $key =>$value)

{

$value = number\_format($value,2);

//increment the countitem variable by 1

echo "$key costs $value<br />";

//calculate the runningtotal of the sum variable

//Calculate the average

}

/\*Display the average cost of each course and display the bill to pay  
then display the 15% tip and the total cost of the bill \*/

?>

This is the completed file.

<?php

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

file: outtotea.php

as associative array

outputs the sum of the $values and then calculates 15% tip

in case you visit the US where tipping occurs

and the average cost of the courses

\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

include('tea-header.inc');

page\_header('Costs are rising');

$sum = 0;

$countitem = 0;

$outtotea = array('dumplings'=> 8.00, 'chicken soup' => 5.00, 'spagbol' => 9.00);

foreach($outtotea as $key =>$value)

{

$value = number\_format($value,2);

$countitem +=1;

echo "$key costs $value<br />";

$sum += $value;

$avg = $sum / $countitem;

$avg = number\_format($avg,2);

}

$sum = number\_format($sum,2);

echo "You pay this bill: $sum";

echo "<br />The average cost of each course is $". $avg. " . <br />";

$tip = 0.15 \* $sum;

$tip = number\_format($tip,2);

echo "The tip comes to $". $tip. ".<br />";

$total = $sum + $tip;

echo "The total bill if you were in North America comes to $". number\_format($total,2).".";

?>

<?php

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

file: tea-header.inc

page\_header function

incorporates css

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

function page\_header ($title)

// Use this function to make an easy page header with a title.

// This version uses a CSS file to modify the appearance.

{

echo "<html> \n";

echo "<head> \n";

echo " <title> $title </title>\n";

echo " <link rel=\"stylesheet\" href=\"tea.css\" type=\"text/css\">";

echo "<body> \n";

echo " <fieldset> ";

echo " <legend>From Soup to Nuts</legend> ";

}

echo "<br /><br />";

?>

/\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

file: tea.css

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

html

{

margin:0;

padding:0;

}

body{

font-family: arial;

font-size: 16px;

margin:2em 0 0 5em;

padding:0;

font-family: 'Palatino Linotype', Garamond, serif;

background: #406E72; /\* pastel greenish \*/

color: #FFF;

}

label {

display: block;

width: 200px;

float: left;

padding-left: 5px;

text-align: right;

font-weight: bold;

}

input {

float: clear;

display: block;

width: 150px;

float: left;

position: relative;

margin-left: 4px;

margin-bottom: 15px;

}

fieldset

{

border: 1px solid #BF3044;/\*reddish\*/

width: 30em;

padding-bottom: 20px;

padding-left: 10px;

}

legend

{

color: #fff;

background: #A8A8B3; /\*pastel light green \*/

border: 1px solid #FFFF66; /\*reddish\*/

padding: 2px 6px;

}

.submit input

{

color: #fff;

background: #5877B1;/\*gold \*/

border: 2px outset #FFFF66; /\*outset so it looks like a button \*/

margin-left: 4em;

margin-top: 2em;

font-weight: bold;

width: 100px;

padding-bottom: 5px;

}

h1{

color: #666633;

}

a{

text-decoration: none;

}

a:link{

color:#000; /\* black \*/

}

a:visited{

color: #000; /\* black \*/

}

a:hover {

color: #DAE492; /\*grey \*/

}