PHP: associative array – Meal Costs

Design specifications: Build an app which allows the user to input the costs of a 3 course meal. The output will display the individual course costs, the sum to pay the restaurant and an average cost of the three courses.

The program must be simple to extend, say, for 4 courses or 5.

You can use the PHP global of $\_POST to gather data for your meal costs form. This global variable is itself an associative array. So, it gathers all the keys and values from the form.

Re-engineer your ShowScoresForm.php file so that it allows the user to enter the costs of a 3 course meal. Save your new file as MealCostForm.php.

Copy the file: ShowMealCost.php and work out the calculations for the sum and average costs. Add code to allow the user to return to the MealCostForm.php.

For students. They need to add extra code here.

<?php

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

 file: ShowMealCost.php

 called from MealCostForm.php

 as associative array

 outputs the sum of the $values and then calculates the total bill

 and the average price of the courses

 allows user to input new data

 inspired by Greg and Kevork

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

 include('tea-header.inc');

 page\_header('meal costs');

 //initialise the sum variable

 //initialise the countitem variable

 foreach($\_POST as $course =>$cost)

 {

 echo " The $course comes to $cost<br />";

 //missing code

 }

 //missing code to output calculations

 echo "<a href = \"MealCostForm.php\">another meal?</a>";

?>

For students who cannot cope with re-engineering their previous forms

<?php

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

file: MealCostForm.php

gathers course meal cost data to ShowMealCost.php

thanks to Greg Durkin

contains href to CSS

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

 include('tea-header.inc');

 page\_header('Meal Costs');

 echo "<form action=\"ShowMealCost.php\" method=\"post\"><br \>\n";

 echo "<p><label>entree cost </label>\n";

 echo "<input type=\"text\" name=\"entree\_cost\"></p><br \>\n";

 echo "<p><label>soup cost </label>\n";

 echo "<input type=\"text\" name=\"soup\_cost\"></p><br \>\n";

 echo "<p><label>mains cost </label>\n";

 echo "<input type=\"text\" name=\"mains\_cost\"></p><br \>\n";

 echo "<input type=\"submit\" value=\"Calculate\"><br \>\n";

 echo "</fieldset><br \>\n";

 echo "</form><br \>\n";

 ?>

The finished file

<?php

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

 file: ShowMealCost.php

 called from MealCostForm.php

 as associative array

 outputs the sum of the $values and then calculates the total bill

 and the average price of the courses

 allows user to input new data

 inspired by Greg and Kevork

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

 include('tea-header.inc');

 page\_header('meal costs');

 $sum = 0;

 $countitem = 0;

 foreach($\_POST as $course =>$cost)

 {

 echo " The $course comes to $cost<br />";

 $countitem +=1;

 $sum += $cost;

 }

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

 echo "You pay this bill: $sum";

 $avg = $sum / $countitem;

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

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

 echo "<a href = \"MealCostForm.php\">another meal?</a>";

?>

<?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 \*/

}