Lab 4-1 Working with Arrays

		Prepared: TrangNTT
Lab 4.	Working with Arrays	1
4.1.	Prepare	2
4.2.	Tuna Café	2
4.3.	Drive Distance	4
1.1	Evereica User Corting	c

4.1. Prepare

Create Lab4 directory in the lab exercise project.

4.2. Tuna Café

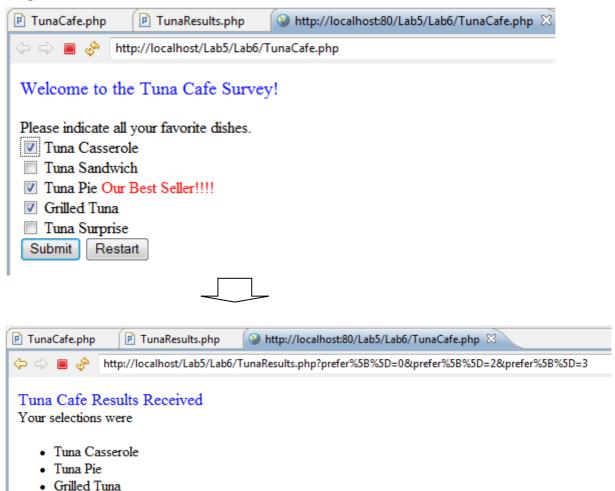
Step 1. TunaCafe.php

```
🕑 TunaCafe.php 🖾 🕟 TunaResults.php
                                 http://localhost:80/Lab5/Lab6/TunaCafe.php
  1 <html>
        <head><title> Tuna Cafe </title></head>
  3⊜
        <body><font size=4 color="blue">
       Welcome to the Tuna Cafe Survey! </font>
  5
        <form action="TunaResults.php" method="GET">
  6
            <?php
  7
                $menu = array('Tuna Casserole', 'Tuna Sandwich',
                        'Tuna Pie', 'Grilled Tuna', 'Tuna Surprise');
  9
                $bestseller = 2;
 10
                print 'Please indicate all your favorite dishes. <br>';
                for ($i=0; $i < count($menu); $i++) {</pre>
 11
 12
                     print "<input type=\"checkbox\" name=\"prefer[]\"value=$i> $menu[$i]";
                     if ($i == $bestseller) {
 13
 14
                           print '<font color=red> Our Best Seller!!!! </font>';
 15
 16
                       print '<br>';
 17
                }
 18
            ?>
            <input type="submit" value="Submit">
 19
 20
            <input type="reset" value="Restart">
 21
        </form>
 22
        </body>
23 </html>
```

Step 2. TunaResults.php

```
P TunaResults.php ☑ W http://localhost:80/Lab5/Lab6/TunaCafe.php
🖪 TunaCafe.php
  1 <html>
        <head><title> Tuna Cafe </title></head>
  3⊖
        <font size=4 color="blue"> Tuna Cafe Results Received </font>
  5
        <?php
           $menu = array('Tuna Casserole', 'Tuna Sandwich', 'Tuna Pie', 'Grilled Tuna', 'Tuna Surprise');
  8
           $prefer = $ GET[prefer];
  9
             if (count($prefer) == 0 ) {
                 print 'Oh no! Please pick something as your favorite! ';
 10
 11
             } else {
 12
                 print '<br>Your selections were ';
 13
                  foreach ($prefer as $item) {
 14
                     print "$menu[$item]";
 15
 16
                  print '';
 18
 19
       </body>
 20 </html>
```

Step 3. Run



4.3. Drive Distance

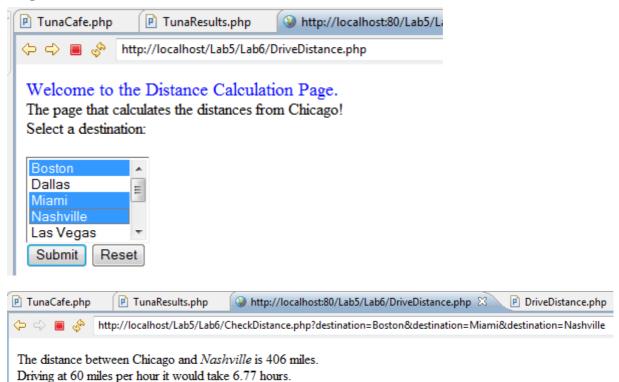
Step 1. DriveDistance.php

```
http://localhost:80/Lab5/Lab6/
TunaCafe.php
               TunaResults.php
  1 <HTML>
  2 <HEAD><TITLE> Distance from Chicago!</TITLE></HEAD>
  3@<BODY>
  4 <FONT SIZE=4 COLOR=BLUE> Welcome to the Distance Cal
  5 <br/>br>The page that calculates the distances from Chi-
  6 <BR>Select a destination:
  7 <FORM ACTION="CheckDistance.php" METHOD="GET">
    <SELECT NAME="destination" SIZE=5 MULTIPLE>
  8
  9
            <OPTION> Boston </OPTION>
 10
            <OPTION> Dallas </OPTION>
            <OPTION> Miami </OPTION>
 11
            <OPTION> Nashville </OPTION>
 12
            <OPTION> Las Vegas </OPTION>
 13
 14
            <OPTION> Pittsburgh </OPTION>
 15
            <OPTION> San Francisco </OPTION>
 16
            <OPTION> Toronto </OPTION>
 17
            <OPTION> Washington, DC </OPTION>
      </SELECT>
 18
 19
        <BR>
 20
        <INPUT TYPE="SUBMIT" VALUE="Submit">
        <INPUT TYPE = "RESET" VALUE = "Reset" >
 21
 22 </FORM></BODY></HTML>
22
```

Step 2. CheckDistance.php

```
TunaCafe.php
             P TunaResults.php Whttp://localhost:80/Lab5/Lab5/DriveDistance.php P DriveDistance.php CheckDistance.php
  1 <html>
        <head><title> Distance and Time Calculations </title></head>
  3⊖
        <body>
                 $cities = array ('Dallas' => 803, 'Toronto' => 435, 'Boston' => 848,
                                  'Nashville' => 406, 'Las Vegas' => 1526,
  6
                                 'San Francisco' => 1835, 'Washington, DC'=> 595,
  8
                                 'Miami' => 1189, 'Pittsburgh' => 409);
                $destination = $ GET[destination];
 10
                 if (isset($cities[$destination])) {
 11
                     $distance = $cities[$destination];
                     $time = round( ($distance / 60), 2);
 12
 13
                     $walktime = round( ($distance / 5), 2);
 14
                        print "The distance between Chicago and <I>$destination</I> is $distance miles.";
 15
                         print "<br/>br>Driving at 60 miles per hour it would take $time hours.";
 16
                         print "<br>Walking at 5 miles per hour it would take $walktime hours.";
 17
 18
                       print "Sorry, do not have destination information for $destination.";
 19
            2>
        </body>
 21
 22 </html>
```

Step 3. Run



Step 4. Note that although the user selects 3 destination, the result only calculate for the last destination. Modify CheckDistance.php to calculate and display information for all destinations, each destination is located in a row of a table (the table has 5 columns: No., Destination, Distance, Driving time (60 mph), Walking time (5 mph)).

From Chicage to:

No.	Destination	Distance	Driving time	Walking time
1	Boston	848	14.13	169.6
2	Dallas	803	13.38	160.6
3	Las Vegas	1526	25.43	305.2

Walking at 5 miles per hour it would take 81.2 hours.

4.4. Exercise - User Sorting

Given following suggestion code.

```
<?php

function user_sort($a, $b) {
    // smarts is all-important, so sort it first
    if($b == 'smarts') {
        return 1;
    }
    else if($a == 'smarts') {
        return -1;
    }

    return ($a == $b) ? 0 : (($a < $b) ? -1 : 1);
}</pre>
```

```
$values = array('name' => 'Buzz Lightyear',
                                              'email address' => 'buzz@starcommand.gal',
                                             'age' => 32,
                                              'smarts' => 'some');
  if($submitted) {
       if($sort_type == 'usort' || $sort_type == 'uksort' || $sort_type == 'uasort') {
            $sort type($values, 'user sort');
       else {
             $sort type($values);
  }
?>
<form action="UserSorting.php" method="post">
       <input type="radio" name="sort type" value="sort" checked="checked" />
                                                                                                                                                             Standard sort<br />
       <input type="radio" name="sort_type" value="rsort" />
                                                                                                                                                           Reverse sort<br />
       <input type="radio" name="sort_type" value="usort" /> User-defined sort<br/>
<input type="radio" name="sort_type" value="ksort" /> Key sort<br/>
<input type="radio" name="sort_type" value="ksort" /> Reverse key sort<br/>
// Reverse key sort<
        <input type="radio" name="sort type" value="uksort" /> User-defined key sort<br/>br
/>
       <input type="radio" name="sort_type" value="asort" /> Value sort<br />
       <input type="radio" name="sort_type" value="arsort" /> Reverse value sort<br />
       <input type="radio" name="sort type" value="uasort" /> User-defined value
sort<br />
  <input type="submit" value="Sort" name="submitted" />
  Values <?= $submitted ? "sorted by $sort type" : "unsorted"; ?>:
  <l
       <?php
         foreach($values as $key=>$value) {
               echo "<b>$key</b>: $value";
       ?>
  </form>
```

Modify to run it in one PHP file allowing users to sort the data as they choose in the radio button.

The following result is the example:

