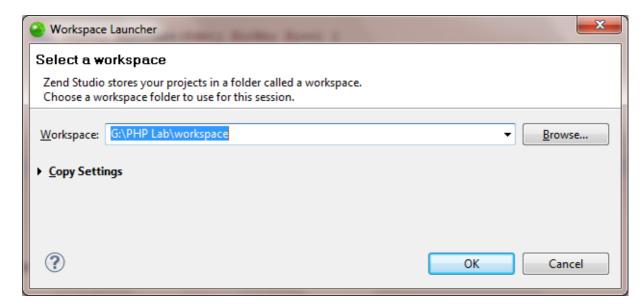
Lab 4. Working with Arrays

Prepared: TrangNT	TT
Working with Arrays	1
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Drive Distance	5
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Evercise 2 - File list Front Bookmark not defined	'n

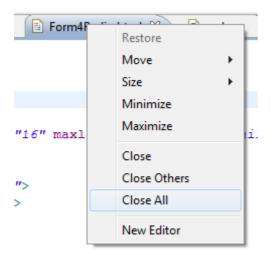
4.1. Open workspace and Create Folder

Step 1. Open Zend Studio 7.0

- Select Start → All Programs → Zend Studio 7.0.0 → Zend Studio 7.0.0
- Choose OK to confirm the workspace.



• Close all the opening file in the **PHP Editor** view by right click to a file and choose **Close All**.



Step 2. Right click on LabProject, choose New Folder. Enter Lab4 as folder name. From now, put all files in this lab to Lab4 folder.

4.2. Tuna Café

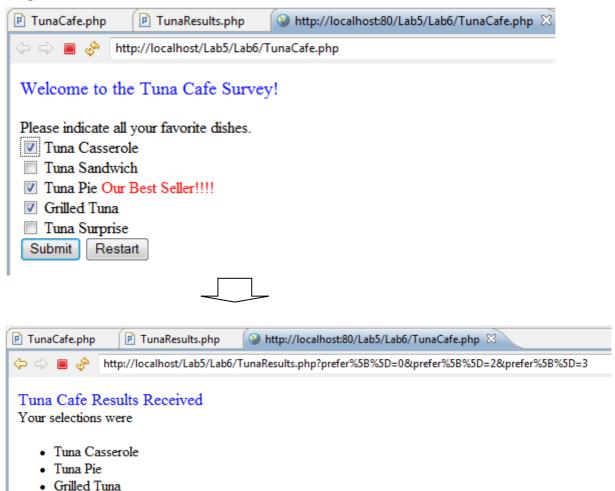
Step 1. TunaCafe.php

```
🕑 TunaCafe.php 🖾 🕒 TunaResults.php
                                http://localhost:80/Lab5/Lab6/TunaCafe.php
        <head><title> Tuna Cafe </title></head>
        <body><font size=4 color="blue">
  4
       Welcome to the Tuna Cafe Survey! </font>
  5
        <form action="TunaResults.php" method="GET">
  6
            <?php
                $menu = array('Tuna Casserole', 'Tuna Sandwich',
                        'Tuna Pie', 'Grilled Tuna', 'Tuna Surprise');
  8
                $bestseller = 2;
  9
                print 'Please indicate all your favorite dishes. <br>';
 11
                for ($i=0; $i < count($menu); $i++) {</pre>
                     print "<input type=\"checkbox\" name=\"prefer[]\"value=$i> $menu[$i]";
 12
                     if ($i == $bestseller) {
 13
 14
                           print '<font color=red> Our Best Seller!!!! </font>';
 15
                      print '<br>';
 16
 17
           ?>
 18
 19
            <input type="submit" value="Submit">
 20
            <input type="reset" value="Restart">
 21
        </form>
 22
        </body>
 23 </html>
```

Step 2. TunaResults.php

```
🖪 TunaCafe.php
 1 <html>
       <head><title> Tuna Cafe </title></head>
 30
      <body>
      <font size=4 color="blue"> Tuna Cafe Results Received </font>
         $menu = array('Tuna Casserole', 'Tuna Sandwich', 'Tuna Pie', 'Grilled Tuna', 'Tuna Surprise');
  6
 8
         $prefer = $_GET[prefer];
          if (count($prefer) == 0 ) {
               print 'Oh no! Please pick something as your favorite! ';
 10
 11
           } else {
 12
                print '<br>Your selections were ';
 13
                foreach ($prefer as $item) {
                  print "$menu[$item]";
 15
               print '';
 16
 17
 18
 19
      </body>
20 </html>
```

Step 3. Run



4.3. Drive Distance

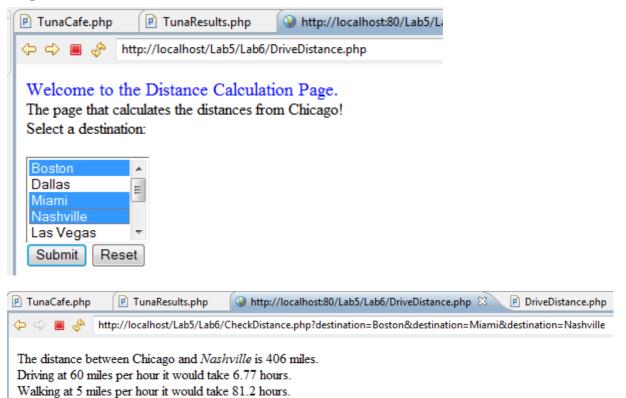
Step 1. DriveDistance.php

```
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

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:

