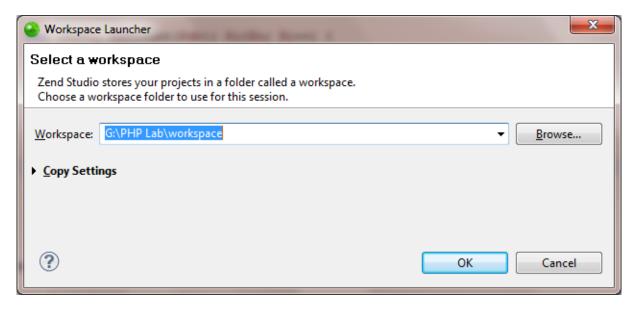
Lab 3-1. Conditional Statements

Prepared: TrangN	TT
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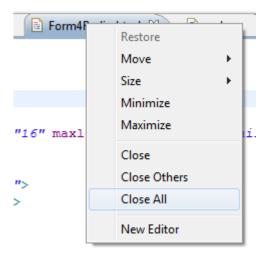
1.1. Create a PHP project

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.



- There should be a project named Lab3 as the result of the previous lab.
- Close all the opening file in the **PHP Editor** view by right click to a file and choose **Close All**.



Step 2. Create a folder named "Lab3"

Then put all files in Lab 3-1 and Lab 3-2 in Lab 3 folder.

1.2. Conditional Test Example

Create a Conditional Test example to compare your first name and last name; and calculate the final grade as the following formula: final grade = 40% * mid-term score + 60% * final-exam score.

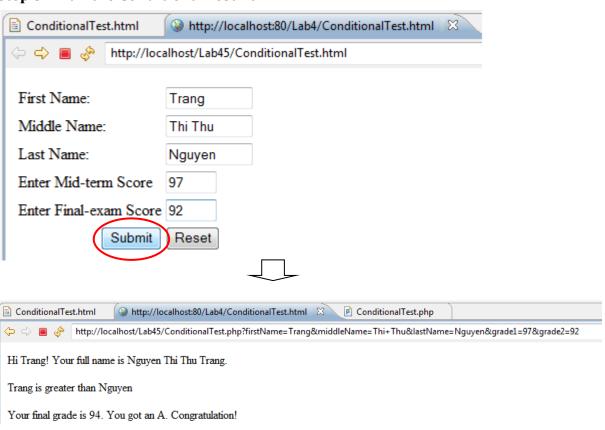
Step 1. Create ConditionalTest.html

```
🖹 ConditionalTest.html 🛭
1 <HTML>
      <HEAD> <TITLE> A Simple Form </TITLE> </HEAD>
 2
 3⊜
      <BODY>
 4
         <FORM ACTION="ConditionalTest.php" METHOD="GET">
 50
              6
                 >
 7
                 First Name: 
                  input type="text" size="10" maxlength="15" name="firstName">
 8
 9
 10
                 11
                  Middle Name: 
                  <input type="text" size="10" maxlength="15" name="middleName">
 12
 13
                 14
                 15
                   Last Name: 
                   input type="text" size="10" maxlength="15" name="lastName">
 16
 17
                 18
 19
                   Enter Mid-term Score 
 20
                   <input type="text" size="4" maxlength="7" name="grade1">
 21
                 22
 23
                   Enter Final-exam Score 
 24
                  <input type="text" size="4" maxlength="7" name="grade2">
 25
                 26
                 27
                   <INPUT TYPE="SUBMIT" VALUE="Submit">
 28
                  <INPUT TYPE="RESET" VALUE="Reset">
 29
 30
              31
         </FORM>
 32
     </BODY>
 33 </HTML>
```

Step 2. Create ConditionalTest.php

```
http://localhost:80/Lab4/ConditionalTest.html
                                                         ConditionalTest.php
ConditionalTest.html
  1 <html>
     <head><title>Conditional Test</title></head>
 3@<body>
 4 <?php
  5 | $first = $_GET["firstName"]; $middle = $_GET["middleName"]; $last = $_GET["lastName"];
  6 print ("Hi $first! Your full name is $last $middle $first. <br ></br>");
    if ($first == $last) {
      print ("$first and $last are equal");
                                                                                            td>
 9 }
    if ($first < $last) {
 10
 11
      print ("$first is less than $last");
 12 }
                                                                                            /td>
 13 if ($first > $last) {
       print ("$first is greater than $last");
 14
 15
 16 print("<br></br>");
                                                                                            1>
 18  $grade1 = $_GET["grade1"]; $grade2 = $_GET["grade2"];
    $final = (2 * $grade1 + 3 * $grade2)/5;
 19
 20
    if ($final > 89) {
 21
       print ("Your final grade is $final. You got an A. Congratulation!");
 22 } elseif ($final > 79) {
 23
       print ("Your final grade is $final. You got an B.");
 24
    } elseif ($final > 69) {
 25
       print ("Your final grade is $final. You got an C.");
 26
    } elseif ($final > 59) {
       print ("Your final grade is $final. You got an D");
 27
 28 } elseif ($final >= 0) {
 29
       print ("Your final grade is $final. You got an F.");
 30 } else {
       print ("Illegal grade less than 0. Final grade = $final");
 31
 32
     ?></body></html>
33
```

Step 3. Run the Conditional Test. html



1.3. Using switch statement

Good!

Modify the ConditionalTest example as the following. Run and observe the result.

```
http://localhost:80/Lab4/ConditionalTest.html
                                                                  🕑 ConditionalTest.php 🛭 🔌
  20
      if ($final > 89) {
         printf ("Your final grade is %.1f. You got an A. Congratulation!", $final);
 21
         $rate = "A";
  22
  23
      } elseif ($final > 79) {
         printf ("Your final grade is %.1f. You got a B.", $final);
  24
  25
      $\infty \text{$\text{rate} = "B";}
  26
      } elseif ($final > 69) {
         printf ("Your final grade is %.1f. You got a C.", $final);
  27
       $rate = "C";
  28
      } elseif ($final > 59) {
  29
         printf ("Your final grade is %.1f. You got a D", $final);
  30
  31
       $rate = "D";
       } elseif ($final > 39) {
  32
       printf ("Your final grade is %.1f. You got a E", $final);
  33
          $rate - "E";
  34
  35
      } elseif ($final >= 0) {
  36
         printf ("Your final grade is %.1f. You got a F.", $final);
  37
      $rate = "F";
  38
  39
         printf ("Illegal grade less than 0. Final grade = %.1f", $final);
  40
        $rate = "Illegal";
  41
      }
  42
  43
      print("<br>");
  44
      switch ($rate) {
  45
          case "A": print("Excellent!"); break;
  46
          case "B": print("Good!"); break;
  47
          case "C": print("Not bad!"); break;
  48
          case "D": print("Normal!"); break;
  49
          case "D":
 50
          case "F": print("You have to try again!"); break;
 51
          default: print("Illegal grade!");
 52
      ?></hodv></ht.ml>
ConditionalTest.html
                http://localhost:80/Lab4/ConditionalTest.htm
👉 🖒 🔳 🧬 http://localhost/Lab45/ConditionalTest.html
 First Name:
                 Trang
 Middle Name:
                 Thi Thu
 Last Name:
                 Nguyen
 Enter Mid-term Score 85
 Enter Final-exam Score 87
          Submit Reset
ConditionalTest.html
                  📦 http://localhost:80/Lab4/ConditionalTest.html 🛛 💥
🐤 🔷 🔳 🔗 http://localhost/Lab45/ConditionalTest.php?firstName=Trang&midd
Hi Trang! Your full name is Nguyen Thi Thu Trang.
Trang is greater than Nguyen
Your final grade is 86.2. You got a B.
```

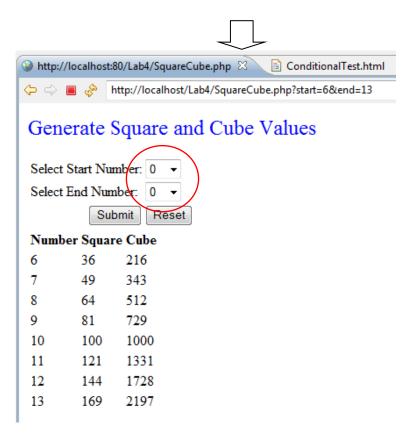
1.4. Square and Cube

Step 1. Create a SquareCube.php file to generate square and cube values.

```
ConditionalTest.html
                 ConditionalTest.php
                                 http://localhost:80/Lab4/SquareCube.php
 1 <html><head><title>Square and Cube</title></head>
 2@<body><font size="5" color="blue">
 3 Generate Square and Cube Values </font>
 5
       <form action="<?php echo $_SERVER['PHP_SELF'] ?>" method="GET">
 70
      8
              Select Start Number: 
 10
             <select name="start">
 11
                    <?php
                       for ($i=0; $i<=10; $i++) {
 13
                           print ("<option>$i</option>");
 14
 15
                    ?>
 16
                    </select>
 17
             18
          19
          Select End Number: 
 20
 21
              <select name="end">
 22
                    <?php
 23
                        for ($i=0; $i<=20; $i++) {
 24
                           print ("<option>$i</option>");
 25
 26
 27
                 </select>
 28
             30
          >
              <INPUT TYPE="SUBMIT" VALUE="Submit">
 31
              <INPUT TYPE="RESET" VALUE="Reset">
 33
          34
350
      36
          NumberSquareCube
37
             if (array_key_exists("start", $_GET)) {
 38
 39
                 $start = $_GET["start"];
 40
                 $end = $_GET["end"];
 41
                 $i = $start;
                 while ( $i <= $end ) {
 42
 43
                    $sqr=$i*$i;
 44
                    $cubed=$i*$i*$i;
 45
                    print "<TR><TD>$i</TD><TD>$sqr</TD><TD>$cubed</TD></TR>";
 46
                    $i = $i + 1;
 47
 48
 49
          25
 50
      51
      </form>
52 </body>
53 </html>
```

Step 2. Run and observe the result





Note that the values of start/end number selection remain 0 even after submiting. Do Step 3 to remain the values that users choose.

Step 3. Modify the SquareCube.php to remain selection values

 Move and modify the code which get values for \$start and \$end variables before the selection box.

```
5
      <form action="<?php echo $ SERVER['PHP SELF'] ?>" method="GET">
6
          if (array_key_exists("start", $_GET)) {
8
             $start = $ GET["start"]; $end = $ GET["end"];
.0
             $start = 0; $end = 0;
11
          }
12
13⊖
      14
        15
             Select Start Number: 
      40
410
      <?php
             if (array key exists("start", $ GET)) {
                print("NumberSquareCube");
                $i = $start;
                while ( $i <= $end ) {
48
                   $sqr=$i*$i;
49
                   $cubed=$i*$i*$i;
```

Modify the selection box to remain the values in \$start and \$end variables.

```
ConditionalTest.html
http://localhost:80/Lab4/SquareCube.php
                                                ConditionalTest.php
                                                                  🕑 SquareCube.php 🖂 🗎
11
129
       13
          >
14
              Select Start Number: 
15
              <select name="start">
16
                      <?php
17
                         for ($i=0; $i<=10; $i++) {
                             if ($start==$i){
18
19
                                 print ("<option selected>$i</option>");
20
                             } else {
21
                                print ("<option>$i</option>");
22
23
                         }
24
25
                      </select>
              26
27
           28
           29
              Select End Number: 
30
              <select name="end">
                      <?php
                         for ($i=0; $i<=20; $i++) {
32
33
                             if ($end==$i) {
                                print ("<option selected>$i</option>");
34
 35
                             } else {
36
                                 print ("<option>$i</option>");
37
38
39
 40
                  </select>
41
              42
          43
            <INPUT TYPE="SUBMIT" VALUE="Submit">
44
                                        ConditionalTest.html
🎯 http://localhost:80/Lab4/SquareCube.php 💢 🗋
       http://localhost/Lab4/SquareCube.php?start=9&end=13
 Generate Square and Cube Values
 Select Start Number: 9
 Select End Number: 13 ▼
            Submit
                    Reset
 Number Square Cube
 9
                 729
          81
 10
          100
                 1000
                 1331
 11
          121
                 1728
 12
          144
                 2197
 13
          169
```

1.5. Date Time Processing Exercise

Tạo DateTimeProcessing để yêu cầu nhập vào giờ, phút, giây; ngày, tháng, năm. Sau đó, đưa ra thêm một số thông tin về ngày giờ theo định dạng 12 giờ và đưa ra tháng đó có bao nhiều ngày.

Biết rằng, tháng 1, 3, 5, 7, 8, 10, 12 có 31 ngày; tháng 4, 6, 9, 11 có 30 ngày; tháng 2 có 29 ngày nếu đó là năm nhuận, 28 ngày nếu không là năm nhuận.

Năm nhuận là những năm nào chia hết cho 4 được coi là năm nhuận. Tuy nhiên, vẫn có một số ngoại lệ đối với nguyên tắc này. Những năm chia hết cho 100 chỉ được coi là năm nhuận nếu chúng cũng chia hết cho 400. Ví dụ, 1600 và 2000 là các năm nhuận nhưng 1700, 1800 và 1900 không phải năm nhuận. Tương tự như vậy, 2100, 2200, 2300, 2500, 2600, 2700, 2900 và 3000 không phải năm nhưng 2400 và 2800 là các năm nhuận.

Enter your name and select date and time for the appointment

Your name:	Tra	ng				
Date:	9	•	9	•	2009	•
Time: Submit	23 Re	vset	23	•	2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	TIII

I Date Time Validation							
Enter your name and select date and time for the appointment							
Your name:	Trang						
Date:	9 🔻	9 🔻	2009	▼			
Time:	23 ▼	23 ▼	23 ▼				
Submit Reset							
Hi Trang!							
You have choose to have an appointment on 23:23:23, 9/9/2009							
More information							
In 12 hours, the time and date is 11:23:23 PM, 9/9/2009							
This month has 30 days!							

Năm nhuận:

Enter your name and select date and time for the appointment

Your name:	Trang						
Date:	9	•	2	•	2008 ▼		
Time:	23	•	23	•	23 ▼		
Submit	Re	ese	t				

Hi Trang!

You have choose to have an appointment on 23:23:23, 9/2/2008

More information

In 12 hours, the time and date is 11:23:23 PM, 9/2/2008

This month has 29 days!