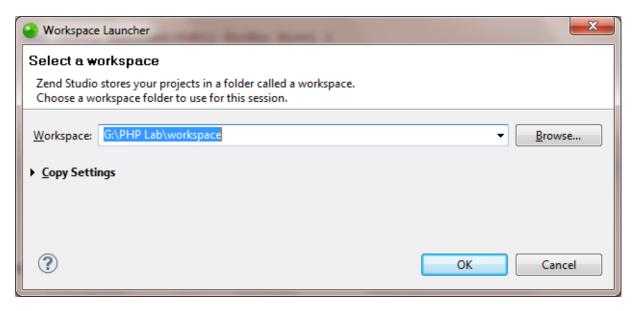
# Lab 3-1. Conditional Statements

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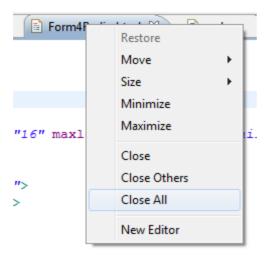
# 1.1. Create a PHP project

#### 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.

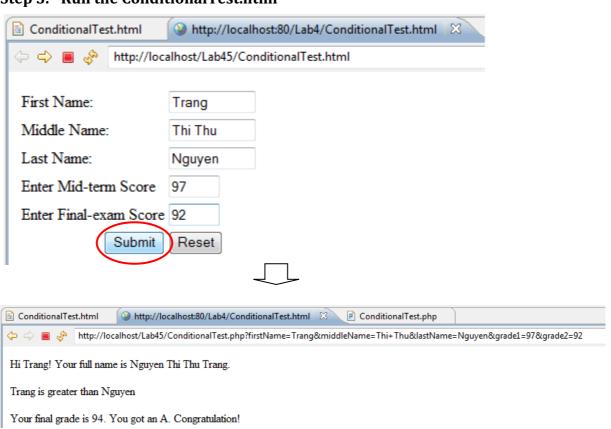
#### Step 1. Create ConditionalTest.html

```
🖹 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">
                  <INPUT TYPE="RESET" VALUE="Reset">
 28
 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>
 30<body>
 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 $last are equal");
                                                                                            td>
 9 }
 10 if ($first < $last) {
 11
      print ("$first is less than $last");
 12 }
                                                                                            /td>
 13 if ($first > $last) {
       print ("$first is greater than $last");
 14
 15 }
 16 print("<br>>');
                                                                                            1>
 18  $grade1 = $_GET["grade1"]; $grade2 = $_GET["grade2"];
    $final = (2 * $grade1 + 3 * $grade2)/5;
 19
 20 if ($final > 89) {
       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
```

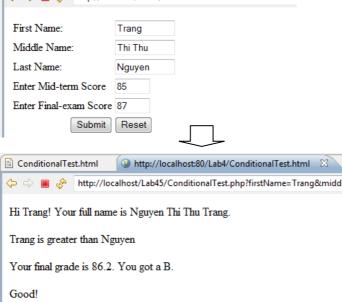
## Step 3. Run the ConditionalTest.html



### 1.3. Using switch statement

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
     $rate = "B";
 25
     } elseif ($final > 69) {
 26
        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
     $rate = "D";
 31
     } elseif ($final > 39) {
 32
      printf ("Your final grade is %.1f. You got a E", $final);
 33
 34
        $rate - "E";
 35
     } elseif ($final >= 0) {
 36
        printf ("Your final grade is %.1f. You got a F.", $final);
     $rate = "F";
 37
     } else {
 38
 39
        printf ("Illegal grade less than 0. Final grade = %.1f", $final);
 40
       $rate = "Illegal";
 41
     }
 42
     print("<br>//br>");
 43
 44
     switch($rate){
 45
        case "A": print("Excellent!"); break;
        case "B": print("Good!"); break;
 46
        case "C": print("Not bad!"); break;
 47
 48
        case "D": print("Normal!"); break;
        case "D":
 49
 50
        case "F": print("You have to try again!"); break;
 51
        default: print("Illegal grade!");
 52
     ?></hodv></ht.ml>
               http://localhost:80/Lab4/ConditionalTest.htm
ConditionalTest.html
First Name:
               Trang
Middle Name:
               Thi Thu
Last Name:
               Nguyen
Enter Mid-term Score 85
```



# 1.4. Square and Cube

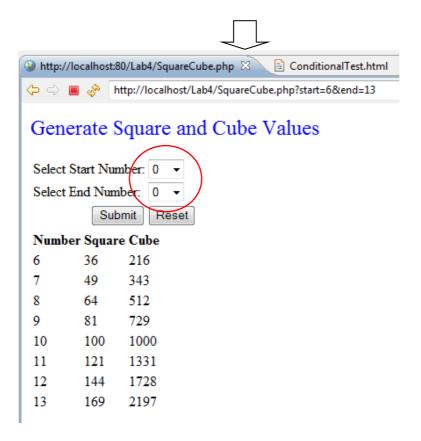
Step 1. Create a SquareCube.php file to generate square and cube values.

```
ConditionalTest.html
                                                  ConditionalTest.php

    SquareCube.php 
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    SquareCube.php
    SquareCube.php
    Squ
     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; $i++) {
                                                                                  print ("<option>$i</option>");
   24
   25
   26
   27
                                                   </select>
   28
                                         30
                              >
                                          <INPUT TYPE="SUBMIT" VALUE="Submit">
   31
                                         <INPUT TYPE="RESET" VALUE="Reset">
   33
                               34
   35⊜
                  36
                              NumberSquareCube
   37
                              <?php
                                         if (array_key_exists("start", $_GET)) {
   38
   39
                                                    $start = $_GET["start"];
                                                    $end = $_GET["end"];
   40
   41
                                                   $i = $start;
                                                    while ( $i \le $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
                              2>
                   51
                  </form>
  52 </body>
53 </html>
```

#### Step 2. Run and observe the result

http://localhost:80/Lab4/SquareCube.php \( \text{\tint{\text{\tin\text{\texit{\text{\texi}\text{\texi{\texi{\texi\texi{\text{\texitex{\texiclex{\texi{\texi\texi{\texi{\texi}\texi{\texi{\texi{\texi{\tex					
⇔ □ ⋄	http://localhost/Lab4/SquareCube.php				
	Square and Cube Values				
Select Start N	umber: 6 ▼				
Select End Nu	ımber: 13 ▼				
S	ubmit Reset				



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.

```
<form action="<?php echo $ SERVER['PHP SELF'] ?>" method="GET">
5
6
         if (array key exists("start", $ GET)) {
8
            $start = $_GET["start"]; $end = $_GET["end"];
         } else {
LO
            11
         }
12
13⊖
      14
        >
15
            Select Start Number: 
40
     410
      <?php
            if (array key exists("start", $ GET)) {
               print("NumberSquareCube");
               $i = $start;
               while ( $i <= $end ) {
47
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>$i</option>");
22
23
                         }
24
25
                      </select>
              26
27
           28
29
              Select End Number: 
30
             <select name="end">
31
32
                         for ($i=0; $i<=20; $i++) {
 33
                             if ($end==$i) {
 34
                                print ("<option selected>$i</option>");
 35
                             } else {
 36
                                 print ("<option>$i</option>");
 37
 38
                         }
 39
 40
                  </select>
 41
              42
43
            <INPUT TYPE="SUBMIT" VALUE="Submit">
🍑 http://localhost:80/Lab4/SquareCube.php 💢 🗋
                                        🔋 ConditionalTest.html
       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
          81
                 729
                 1000
 10
          100
 11
          121
                 1331
 12
          144
                 1728
 13
          169
                 2197
```

## 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

Date: 9 • 9 • 2009 •  Time: 23 • 23 • 2000 ^  Submit Reset 2002 2003 2004 2005 2006 2007 2008	Your name:	Tra	ng				
Submit Reset 2001 2001 2002 2003 2004 2005 2006 2007	Date:	9	•	9	•	2009	•
2000			veset	_	•	2001 2002 2003 2004 2005 2006	*

<b></b> ■ Date Time Validation						
Enter your name and select date and time for the appointment						
Your name:	Trang					
Date:	9 🕶 9 🕶 2009 🕶					
Time:	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 h	has 30 days!					

## Năm nhuận:

Enter your name and select date and time for the appointment

Your name:	Tra	ng				
Date:	9	•	2	•	2008	•
Time:	23	•	23	•	<b>23</b> ▼	
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!