**Exercise 02\_01\_01 – Step 1**

PHPCodeBlocks.php

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>PHP Code Blocks</title>

<script src="modernizr.custom.65897.js"></script>

</head>

<h1>Hello, world!</h1>

<body>

</body>

</html>

------------------------------------

PHPCodeBlocks.php

<head>

<!--

Exercise 02\_01\_01

Author: Mark J. Buckler

Date: august 26, 2017

Filename: PHPCodeBlocks.php

-->

------------------------------------

PHPCodeBlocks.php

<p>

<?php

?>

</p>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters. ";

?>

**Exercise 02\_01\_01 – Step 2**

PHPTest.php

<?php

phpinfo();

?>

**Exercise 02\_01\_01 – Step 3**

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.";

print "Second string";

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

print("Third string<br>");

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

echo "<h1>This is a" , " multiple argument   
 string.</h1>";

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

echo("<h1>This is a" , " multiple argument   
 string.</h1>");

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

print("Third string<br>");

echo "<h1>This is a" , " multiple argument   
 string.</h1>";

echo("<h1>This is a" . " concatenated argument   
 string.</h1>");

?>

------------------------------------

PHPCodeBlocks.php

<?php

echo "This text is displayed using standard PHP

script delimiters.<br>";

print "Second string<br>";

print("Third string<br>");

echo "<h1>This is a" , " multiple argument   
 string.</h1>";

echo("<h1>This is a" . " concatenated argument   
 string.</h1>");

print("<h2>This is some math: " . (2 + 3) . "</h2>");

?>

**Exercise 02\_01\_01 – Step 4**

MultipleScripts.php

<!doctype html>

<html>

<head>

<title>PHP Environment Info</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

</body>

</html>

------------------------------------

MultipleScripts.php

<body>

<h1>PHP Environment Info</h1>

<p>This page was rendered with PHP version

<?php

echo phpversion();

?>

</p>

</body>

------------------------------------

MultipleScripts.php

<p>The PHP code was rendered with Zend Engine version

<?php

echo zend\_version();

?>

</p>

MultipleScripts.php

<p>PHP's default MIME type is

<?php

echo ini\_get("default\_mimetype");

?>

<p>The maximum allowable execution time of a PHP script is

<?php

echo ini\_get("max\_execution\_time");

?>

seconds.

</p>

**Exercise 02\_01\_01 – Step 5**

HelloWorld.php

<!doctype html>

<html>

<head>

<title>Hello World</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

</body>

</html>

------------------------------------

HelloWorld.php

<head>

<!--

Exercise 02\_01\_01

Author: Mark J. Buckler

Date: September 3, 2017

Filename: HelloWorld.php

-->

------------------------------------

HelloWorld.php

<body>

<?php

?>

------------------------------------

HelloWorld.php

<body>

<?php

$worldVar = "World";

$sunVar = "Sun";

$moonVar = "Moon";

$worldInfo = 92897000;

$sunInfo = 72000000;

$moonInfo = 3456;

------------------------------------

HelloWorld.php

$moonInfo = 3456;

echo "<p>Hello $worldVar!<br>";

echo "The $worldVar is $worldInfo miles from the   
 $sunVar.<br>";

echo "Hello ", $sunVar, "!<br>";

echo "The $sunVar's core temperature is approximately   
 $sunInfo degrees Fahrenheit.<br>";

echo "Hello ", $moonVar, "!<br>";

echo "The $moonVar is $moonInfo miles in diameter.</p>";

------------------------------------

HelloWorld.php

echo "This is a {$moonVar}embedded in double quotes";

echo "This is a $moonVarembedded in double quotes";

**Exercise 02\_01\_01 – Step 6**

HelloWorld2.php

$moonVar = "Moon";

define("WORLD\_INFO", 92897000);

define("SUN\_INFO", 72000000);

define("MOON\_INFO", 3456);

------------------------------------

HelloWorld2.php

echo "<p>Hello $worldVar!<br>";

echo "The $worldVar is ", WORLD\_INFO, " miles from the   
 $sunVar.<br>";

echo "Hello ", $sunVar, "!<br>";

echo "The $sunVar's core temperature is approximately ",   
 SUN\_INFO, " degrees Fahrenheit.<br>";

echo "Hello ", $moonVar, "!<br>";

echo "The $moonVar is ", MOON\_INFO, " miles in   
 diameter.</p>";

------------------------------------

HelloWorld2.php

echo "<p>Hello $worldVar!<br>";

echo "The $worldVar is ", number\_format(WORLD\_INFO,0), "   
 miles from the $sunVar.<br>";

echo "Hello ", $sunVar, "!<br>";

echo "The $sunVar's core temperature is approximately ",   
 number\_format(SUN\_INFO,2), " degrees Fahrenheit.<br>";

echo "Hello ", $moonVar, "!<br>";

echo "The $moonVar is ", number\_format(MOON\_INFO,0), " miles   
 in diameter.</p>";

**Exercise 02\_01\_01 – Step 7**

Concerts.php

<h1>Central Valley Civic Center</h1>

<h2>Summer Concert Season</h2>

<?php

?>

------------------------------------

Concerts.php

<?php

$concerts = array("Jimmy Buffett", "Chris Isaak", "Bonnie   
 Raitt", "James Taylor", "Alicia Keys");

?>

------------------------------------

Concerts.php

<?php

$concerts = array("Jimmy Buffett", "Chris Isaak", "Bonnie   
 Raitt", "James Taylor", "Alicia Keys");

$concerts[] = "Bob Dylan";

$concerts[] = "Ryan Cabrera";

?>

------------------------------------

Concerts.php

$concerts[] = "Ryan Cabrera";

echo "<p>The following ", count($concerts), " concerts are   
 scheduled:</p><p>";

------------------------------------

Concerts.php

echo "<p>The following ", count($concerts), " concerts are   
 scheduled:</p><p>";

echo "$concerts[0]<br>";

echo "$concerts[1]<br>";

echo "$concerts[2]<br>";

echo "$concerts[3]<br>";

echo "$concerts[4]<br>";

echo "$concerts[5]<br>";

echo "$concerts[6]</p>";

Concerts.php

echo "$concerts[6]</p>";

echo "<pre>";

print\_r($concerts);

echo "</pre>";

------------------------------------

Concerts.php

echo "<pre>";

var\_dump($concerts);

echo "</pre>";

**Exercise 02\_01\_01 – Step 8**

ArithmeticOperators.php

<?php

// Addition

$x = 100;

$y = 200;

$returnValue = $x + $y;

echo "<h2>Addition</h2>";

echo '<p>$returnValue after addition expression: ',   
 $returnValue, "</p>";

?>

------------------------------------

ArithmeticOperators.php

// Subtraction

$x = 10;

$y = 7;

$returnValue = $x - $y;

echo "<h2>Subtraction</h2>";

echo '<p>$returnValue after subtraction expression: ',   
 $returnValue, "</p>";

------------------------------------

ArithmeticOperators.php

// Multiplication

$x = 2;

$y = 6;

$returnValue = $x \* $y;

echo "<h2>Multiplication</h2>";

echo '<p>$returnValue after multiplication expression: ',   
 $returnValue, "</p>";

------------------------------------

ArithmeticOperators.php

// Division

$x = 24;

$y = 3;

$returnValue = $x / $y;

echo "<h2>Division</h2>";

echo '<p>$returnValue after division expression: ',   
 $returnValue, "</p>";

ArithmeticOperators.php

// Modulus

$x = 3;

$y = 2;

$returnValue = $x % $y;

echo "<h2>Modulus</h2>";

echo '<p>$returnValue after modulus expression: ',   
 $returnValue, "</p>";

------------------------------------

ArithmeticOperators.php

echo "<h2>Unary Increment: Prefix Notation</h2>";

$studentID = 100;

$curStudentID = ++$studentID;

echo "The first student ID is: ", $curStudentID, "<br>";

$curStudentID = ++$studentID;

echo "The second student ID is: ", $curStudentID, "<br>";

$curStudentID = ++$studentID;

echo "The third student ID is: ", $curStudentID, "<br>";

------------------------------------

ArithmeticOperators.php

echo "<h2>Unary Increment: Postfix Notation</h2>";

$studentID = 100;

$curStudentID = $studentID++;

echo "The first student ID is: ", $curStudentID, "<br>";

$curStudentID = $studentID++;

echo "The second student ID is: ", $curStudentID, "<br>";

$curStudentID = $studentID++;

echo "The third student ID is: ", $curStudentID, "<br>";

**Exercise 02\_01\_01 – Step 9**

AssignmentOperators.php

<?php

echo "<p>";

// Compound Addition Assignment

echo "<h2>Compound Addition Assignment</h2>";

$changingVar = 100;

$changingVar += 50;

echo '$changingVar = 100<br>';

echo 'After $changingVar += 50: ', $changingVar, "<br>";

?>

------------------------------------

AssignmentOperators.php

// Compound Subtraction Assignment

echo "<h2>Compound Subtraction Assignment</h2>";

$changingVar -= 30;

echo 'After $changingVar -= 30: ', $changingVar, "<br>";

// Compound Division Assignment

echo "<h2>Compound Division Assignment</h2>";

$changingVar /= 3;

echo 'After $changingVar /= 3;: ', $changingVar, "<br>";

// Compound Multiplication Assignment

echo "<h2>Compound Multiplication Assignment</h2>";

$changingVar \*= 8;

echo 'After $changingVar \*= 8: ', $changingVar, "<br>";

// Compound Modulus Assignment

echo "<h2>Compound Modulus Assignment</h2>";

$changingVar %= 300;

echo 'After $changingVar %= 300: ', $changingVar, "<br>";

// Compound Concatenation Assignment

echo "<h2>Compound Modulus Assignment</h2>";

$changingVar = "Those who do not remember the past are   
 condemned to repeat it.";

$changingVar .= ' - Santayana';

echo '$changingVar = Those who do not remember the past are   
 condemned to repeat it.<br>';

echo 'After $changingVar .= " - Santayana": ', $changingVar,   
 "</p>";

**Exercise 02\_01\_01 – Step 10**

ComparisonExamples.php

<?php

echo "<p>";

echo "<h2>Relational Equal Operator</h2>";

$value1 = "First text string";

$value2 = "Second text string";

$returnValue = ($value1 == $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 == $value2 $returnValue is: ',   
 $returnValue, "<br>";

?>

------------------------------------

ComparisonExamples.php

echo "<h2>Relational Equal Operator</h2>";

$value1 = 50;

$value2 = 75;

$returnValue = ($value1 == $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 == $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Not Equal Operator</h2>";

$returnValue = ($value1 != $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 != $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Alternative Not Equal Operator</h2>";

$returnValue = ($value1 <> $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 <> $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Greater Than Operator</h2>";

$returnValue = ($value1 > $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 > $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Less Than Operator</h2>";

$returnValue = ($value1 < $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 < $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Greater Than or Equal Operator</h2>";

$returnValue = ($value1 >= $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 >= $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Less Than or Equal Operator</h2>";

$returnValue = ($value1 <= $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 <= $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Equal Values and Same Data Type   
 Operator</h2>";

$value1 = 25;

$value2 = 25;

$returnValue = ($value1 === $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 === $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>Relational Equal Values and Not Same Data Type   
 Operator</h2>";

$returnValue = ($value1 !== $value2 ? "true" : "false");

echo '$value1: ', $value1, ' $value2: ', $value2, '<br>';

echo 'After $value1 !== $value2 $returnValue is: ',   
 $returnValue, "<br>";

echo "<h2>The gettype() Function</h2>";

echo 'After gettype($returnValue) call: ',   
 gettype($returnValue), "</p>";

**Project 02\_01\_01**

**Part 1**

InterestArray.php

<!doctype html>

<html>

<head>

<!--

Project 02\_01\_01

Author: Mark J. Buckler

Date: September 9, 2017

Filename: InterestArray.php

-->

<title>Interest Array</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

</body>

</html>

------------------------------------

InterestArray.php

<body>

<h2>Interest Array</h2>  
 <?php

?>

</body>

InterestArray.php

$interestRate1 = .0725;

$interestRate2 = .0750;

$interestRate3 = .0775;

$interestRate4 = .0800;

$interestRate5 = .0825;

$interestRate6 = .0850;

$interestRate7 = .0875;

------------------------------------

InterestArray.php

$ratesArray = array(

$interestRate1,

$interestRate2,

$interestRate3,

$interestRate4,

$interestRate5,

$interestRate6,

$interestRate7

);

------------------------------------

InterestArray.php

echo '$ratesArray[0] = ', number\_format($ratesArray[0],4),   
 '<br>';

echo '$ratesArray[1] = ', number\_format($ratesArray[1],4),   
 '<br>';

echo '$ratesArray[2] = ', number\_format($ratesArray[2],4),   
 '<br>';

echo '$ratesArray[3] = ', number\_format($ratesArray[3],4),   
 '<br>';

echo '$ratesArray[4] = ', number\_format($ratesArray[4],4),   
 '<br>';

echo '$ratesArray[5] = ', number\_format($ratesArray[5],4),   
 '<br>';

echo '$ratesArray[6] = ', number\_format($ratesArray[6],4),   
 '<br>';

**Part 2**

DaysArray.php

<!doctype html>

<html>

<head>

<!--

Project 02\_01\_01

Author: Mark J. Buckler

Date: September 9, 2017

Filename: DaysArray.php

-->

<title>Days Array</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

</body>

</html>

------------------------------------

DaysArray.php

<h2>Days Array</h2>

<?php

?>

------------------------------------

DaysArray.php

$days = array("Sunday", "Monday", "Tuesday", "Wednesday",   
 "Thursday", "Friday", "Saturday");

DaysArray.php

$days = array("Sunday", "Monday", "Tuesday", "Wednesday",   
 "Thursday", "Friday", "Saturday");

echo "<p>The days of the week in English are: $days[0],   
 $days[1], $days[2], $days[3], $days[4], $days[5], and   
 $days[6].</p>";

------------------------------------

DaysArray.php

$days[0] = "Dimanche";

$days[1] = "Lundi";

$days[2] = "Mardi";

$days[3] = "Mercredi";

$days[4] = "Jeudi";

$days[5] = "Vendredi";

$days[6] = "Samedi";

------------------------------------

DaysArray.php

echo "<p>The days of the week in French are: $days[0],   
 $days[1], $days[2], $days[3], $days[4], $days[5], and   
 $days[6].</p>";

**Part 3**

IsEven.php

<!doctype html>

<html>

<head>

<!--

Project 02\_01\_01

Author: Mark J. Buckler

Date: September 9, 2017

Filename: IsEven.php

-->

<title>Is Even</title>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<script src="modernizr.custom.65897.js"></script>

</head>

<body>

</body>

</html>

------------------------------------

IsEven.php

<h2>Is Even</h2>

<?php

?>

IsEven.php

<?php

$numbersArray = array(1,2,3,4,5,6,7,8,9,10);

------------------------------------

IsEven.php

$numbersArray = array(1,2,3,4,5,6,7,8,9,10);  
  
 echo "$numbersArray[0] is an ", ($numbersArray[0] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[1] is an ", ($numbersArray[1] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[2] is an ", ($numbersArray[2] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[3] is an ", ($numbersArray[3] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[4] is an ", ($numbersArray[4] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[5] is an ", ($numbersArray[5] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[6] is an ", ($numbersArray[6] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[7] is an ", ($numbersArray[7] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[8] is an ", ($numbersArray[8] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

echo "$numbersArray[9] is an ", ($numbersArray[9] % 2 === 0)   
 ? "even number" : "odd number", "<br>";

?>