**Code Practice Quiz –**

Briefly describe each of the numbered sections of code in [this php example.](https://classes.lanecc.edu/pluginfile.php/2119955/question/questiontext/1460880/1/7192453/DescribeFutureValueMVC.pdf)

* + **#1: index page = controller**
  + **#2: view**
  + **#3: Setting variables to reasonable initial values if they are not already set**
  + **#4: Checking to see if anything exists in the POST array… has the user clicked the button? Are there any calculations to be done?**
  + **#5: Getting data from user and filtering input**
  + **#6: else if statement doing validation on the data**
  + **#7: links two things together, “ok, now show the view.”**
  + **#8: displaying the error message on the page**
  + **#9: pointing to index.php, when you click on button it’s going to back to page. Submitting back to itself. ACTION ATTRIBUTE = ???**
  + **#10: This is how the data is sent to server can either be sent as part of HTT header that user can’t see or if it were GET it would be sent appended to URL, user can see.**
    - **View – view part of the MVC job is to display something to the user**
    - **Model – about data, (classes=C#), variables in this instance, input from user plus output**
    - **Controller – job is to get data and display the view, page that has the code**
* Write a PHP function called isEven that takes one parameter that represents an integer and returns true when the integer is even and false when the integer is odd.
* Test your function by calling it with 2 and 3 as parameters.
  + **function isEven($num)**
  + **{**
    - **if ($num % 2 == 0)**
      * **return true;**
    - **else** 
      * **return false;**
  + **}**
* **TEST FUNCTION:**
  + **echo isEven(2); // Return 1**
  + **echo isEven(3); // Won’t print anything**
* Re-write the writeCalTitle function in syntactically correct PHP code. The function takes a date as its parameter and writes the Month Year to the page. This version of the function MUST USE JUST the date function (not an array) to display the name of the month.
* Test your function by calling it with today's date as the parameter.
  + **function writeCalTitle($date)**
  + **{**
    - **echo date(“F” “Y”, $date); // PHP.net – search date**
  + **}**
* **TEST FUNCTION:**
  + **$today = time();**
    - **writeCalTitle($today);**

**Practice Quiz (chapters 1 & 2) –**

* A web application starts when a client sends a/an **http request** to a server.
* You can use the htmlspecialchars function to protect against **cross-site scripting attacks.**
* **Apache** is the web server that is commonly used for web applications that are written in PHP.
* In a PHP application, dynamic web pages are generated by PHP scripts that are running on the **web server**.
* The condition for a while loop is tested **before** the statements in the loop are executed.
* In a simple assignment statement, you code the variable name followed by the **equal** operator.
* A **web server** makes web sites available to other computers over a network.
* To get the data that is submitted with an HTTP GET request, you use PHP to get the data from the built-in **$\_GET** array.
* **Apache** is the web server that is commonly used for web applications that are written in PHP.
* When you call a function like the number\_format function that returns a value, you usually **assign** the result of the function to a variable.
* A variable name in PHP can only contain letters, numbers, and **underscores**.

**WRONG –**

It's considered a best practice to always use the Answerfunction when you get values from a superglobal array.

Question **20**

Not answered

Scored out of 1.00

Flag question

Question text

A Answer makes web sites available to other computers over a network.

If you omit the filename from a URL, the Apache web server displays a list of files and directories if the specified directory doesn't contain a Answer such as index.php.

Question **17**

Not answered

Scored out of 1.00

Flag question

Question text

A Answer web page is one that has .html or .htm as its extension.

The Answer data type is used to store a true or false value.

Question **8**

Not answered

Scored out of 1.00

Flag question

Question text

In an HTTP URL, the Answer is coded immediately after the protocol but before the path.

Question **9**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

In an if statement, the statements in the else clause are executed if none of the conditions in the if or  Answer clauses are true.

Question **10**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

To deploy a PHP application on your own server, you copy or move its  Answer to the document root directory of the Apache server.

Question **11**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

The Answer in a block of PHP code are ignored.

In a web application, the client uses a Answer to interact with a web server.

Question **2**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

In a conditional expression that includes logical operators, the AND operator has a lower order of precedence than the Answer operator.

A Answer web page is one that has .html or .htm as its extension.

Question **19**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

To use PHP to send data to the browser, you use the  Answerstatement.

Question **20**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

In a web application, the client uses a Answer to interact with a web server.

How  many times will the for loop that follows be executed?   
  
**$years = 25;  
for ($i = 1; $i < $years; $i++) {  
    $future\_value =   
        ($future\_value + ($future\_value \* $interest\_rate));  
}**

Answer: 

In an HTTP URL, the Answer is coded immediately after the protocol but before the path.

**Practice Quiz (chapters 7-11 & 13) –**

* Variable substitution is carried out by what process that converts a variable's value to a string?
  + **Interpolation**
* Which of the following is a relational operator in PHP?
  + **All of these**
* Which of the following statements is NOT a valid way to create a timestamp named $birthdate that represents December 2, 1969?
  + **$birthdate = mktime(12, 2, 1969);**
* Which of the following is a way to assign a string to a variable in PHP?
  + **All of these**
* When you use the substr function to extract a substring from a string, you need to at least pass an argument that gives
  + **The starting position of the substring**
* How many operands does a ternary operator have?
  + **3**
* An if statement can be used to implement a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ structure.
  + **Selection**
* Which type of input element should be used on a form when the user can select only one of the options?
  + **Radio**
* Which PHP function returns a string with all special HTML converted to the HTML entity?
  + **Htmlentities**
* Which of the following operators does NOT perform type coercion?
  + **===**
* Which of the following functions removes the next element in a LIFO array (also known as a stack)?
  + **Array\_pop**
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an integer that represents a date and time as the number of seconds sincemidnight, January 1, 1970.
  + **Timestamp**
* Which PHP function returns an array with the elements of two or more arrays in one array?
  + **Array\_merge**
* Which PHP function returns the number of characters in the string?
  + **Strlen**
* Which PHP function converts some special characters into character entities?
  + **Htmlspecialchars**
* The function that follows returns

function coin\_toss() {

if (mt\_rand(0, 1) == 0) {

$coin = 'heads';

} else {

$coin = 'tails';

}

return $coin;

}

* **Value of either “heads” or “tails”**
* Which HTML element is used to create a drop-down list?
  + **Select**
* To avoid the duplication of function names, you can
  + **Use namespaces**
* Which of the following is considered a scalar value?
  + **All of these**
* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a special type of array that implements a last-in, first-out collection of values.
  + **Stack**

**WRONG:**

To create a DateTime object that represents a due date that's 90 days after the current date, you use the following code:

Select one:

a. **$days = new DateInterval('P90D');  
$due\_date = date();  
$due\_date = $due\_date->add($days);**

b. **$days = new DateInterval('P90D');  
$due\_date = new DateTime();  
$due\_date = $due\_date->add($days);**

c. **$days = new DateInterval('P90D');  
$due\_date = date();  
$due\_date = $due\_date + $days;**

d. **$days = new DateInterval('P90D');  
$due\_date = new DateTime();  
$due\_date = $due\_date + $days;**

Question **2**

Incorrect

Score 0.00 out of 1.00

Flag question

Question text

Which HTML element is used to create items in a drop-down list?

Select one:

a. list

b. item

c. option

d. value

In PHP, function name duplications are likely to occur because

Select one:

a. namespaces create logical function groups

b. all the functions for an application have to be stored in the same file

c. all functions have global scope

d. most programmers use the same naming conventions for functions

An array that uses strings as indexes in PHP is known as aNo \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ array.

Select one:

a. non-numeric

b. associative

c. illegal

d. imaginary

When you use the htmlspecialchars and nl2br functions to process a user's entry and then pass that entry to a web page, the browser will

Select one:

a. process any HTML tags that the user entered instead of displaying them

b. display the any HTML tags entered by the user instead of processing them

c. execute any JavaScript code entered by the user

d. ignore any line breaks entered by the user

What does $message contain after the following code executes?  
**$statusCode = "403";  
switch ( $statusCode ) {  
    case "200":  
        $message = "OK";  
        break;  
    case "403":  
        $message = "Forbidden";  
        break;  
    case "404":  
        $message = "Not Found";  
        break;  
    default:  
        $message = "Unknown Status";  
        break;  
}**

Select one:

a. OK

b. Forbidden

c. Not Found

d. Unknown Status

**Code example 10-1**  
  
**$current\_date = new DateTime();  
$due\_days\_diff = $current\_date->diff($due\_date);  
if ($current\_date > $due\_date) {  
    $overdue\_message = $due\_days\_diff->format(  
        '%y years, %m months, and %d days overdue.');  
}**

(Refer to code example 10-1) If $due\_date contains a DateTime object for a date that comes 1 month and 7 days before the date stored in the $current\_date variable, what will $overdue\_message contain when this code finishes executing:

Select one:

a. **0 years, 1 months, and 7 days overdue.**

b. **-0 years, -1 months, and -7 days overdue.**

c. **1 month and 7 days overdue.**

d. $overdue\_message won't be set because the if clause won't be executed

**Vocab –**

Match the definition with the vocabulary word that best fits the definition.

|  |  |
| --- | --- |
| The php function that creates a date/time. | Answer 1 |
| Use this file extension for a file that contains some php code. | Answer 2 |
| One of the logical operators used in PHP. When one part of the condition is true, the entire condition is true. | Answer 3 |
| This type of operator is used to join simple conditions to form complex condition. And and or are examples. | Answer 4 |
| The area of a program where a variable is known and can be used. | Answer 5 |
| The name of the web server software that is part of Windows. | Answer 6 |
| Variables in PHP must begin with this symbol. | Answer 7 |
| The logical operator used in PHP when all of the parts of a condition must be true. | Answer 8 |
| This php function can be used to extract parts of a date variable. | Answer 9 |
| An extra piece of information that a function needs to do it's work. | Answer 10 |
| The equality operator in PHP. | Answer 11 |
| These symbols are used to delimit php blocks of code in a page. | Answer 12 |
| The most versatile example of a selection statement. It allows you to use complex conditions rather than simply matching cases. | Answer 13 |
| This web server software is often used on Linux servers but can also be run on a Windows server. | Answer 14 |
| These symbols are used to enclose conditions in both selection and repetition statements in PHP. | Answer 15 |
| Used to create blocks of code in PHP, these symbols often enclose the body of an if statement. | Answer 16 |
| When you declare a variable INSIDE a function definition you are using one of these. | Answer 17 |
| Code that runs in the browser. Often provides immediate feedback to the user. | Answer 18 |
| The PHP assignment operator. | Answer 19 |
| Code that runs on a web server. Often requires use of server resources such as a database. | Answer 20 |

Feedback

The correct answer is: The php function that creates a date/time. – mktime(), Use this file extension for a file that contains some php code. – .php, One of the logical operators used in PHP. When one part of the condition is true, the entire condition is true. – ||, This type of operator is used to join simple conditions to form complex condition. And and or are examples. – logical operator, The area of a program where a variable is known and can be used. – scope, The name of the web server software that is part of Windows. – IIS, Variables in PHP must begin with this symbol. – $, The logical operator used in PHP when all of the parts of a condition must be true. – &&, This php function can be used to extract parts of a date variable. – date(), An extra piece of information that a function needs to do it's work. – parameter, The equality operator in PHP. – ==, These symbols are used to delimit php blocks of code in a page. – <?php and ?>, The most versatile example of a selection statement. It allows you to use complex conditions rather than simply matching cases. – if, This web server software is often used on Linux servers but can also be run on a Windows server. – Apache, These symbols are used to enclose conditions in both selection and repetition statements in PHP. – ( and ), Used to create blocks of code in PHP, these symbols often enclose the body of an if statement. – { and }, When you declare a variable INSIDE a function definition you are using one of these. – local variable, Code that runs in the browser. Often provides immediate feedback to the user. – client side code, The PHP assignment operator. – =, Code that runs on a web server. Often requires use of server resources such as a database. – server side code