# Tutorial

**Note: Please fill the online CES feedback for this course if you have not done so.**

**We value your feedback and it helps us to improve the course.**

## Activity 1: Lecture Refresher

Is PHP code executed **server side** or **client side**?   
- server side

Is PHP code **viewable** like javascript code is viewable?  
- no, only people on server side can see it

A PHP file / script is a mix of **HTML** script and **PHP** code.

* How do we **switch** between HTML script and PHP code?  
  they are saved in different files .php and .html so just switch the code file

Browser only show

* Can a PHP file have **only** HTML script in it (ie **no** PHP code)?  
  No, the html needs to be inside <php? >

What character does a PHP identifier (declared variable) need at the front?

* $

Is PHP a weakly-typed language?

## Yes. PHP is a weakly-typed language

## 

## Activity 2: Code Examples

What will be displayed in the browser, and why?

### Sample 1

|  |
| --- |
| <?php  $a = 5;  $b = 5.0;  ?>  <p>  <?php echo ($a == $b ? 'correct' : 'incorrect'); ?><br>  <?php echo ($a === $b ? 'correct' : 'incorrect'); ?><br>  <?php echo ($a = $b ? 'correct' : 'incorrect'); ?>  </p> |

Correct – the value is the same

Incorrect – they are different type of data (integer and float)

Correct – a is assigned a value of 5.0 which is not 0 (not invalid)

### Sample 2

|  |
| --- |
| <table style="border:thick black solid;">  <?php  for ( $i=1; $i<=12; $i++ )  {  echo "<tr>";  for ( $j=1; $j<=12; $j++ )  {  echo "<td>" . $i\*$j . "</td>";  }  echo "</tr>";  }  ?>  </table> |

A 12x12 table

### 

### 

### Sample 3

|  |
| --- |
| <select name='...'>  <?php  $seasons = [  'Autumn' => ['March', 'April', 'May'],  'Winter' => ['June', 'July', 'August'],  'Spring' => ['September', 'October', 'November'],  'Summer' => ['December', 'January', 'February']  ];  foreach ( $seasons as $season => $months ) {  echo "<optgroup label='$season'>";  foreach ( $months as $month ) {  echo "<option value='$month'>$month</option>";  }  echo "</optgroup>";  }  ?>  </select> |

4 selects (4 seasons) each has 3 options (3 months)

## 

## 

**Activity 3: Creating Module Functions**

Movie Title G

Day - Time

Day - Time

Day - Time

Day - Time

Day - Time

Day - Time

Day - Time

Movie

Poster

Module functions can be created in PHP to reduce the amount of hand coded HTML, particularly useful when blocks of code conform to a pattern.

For example a movie panel (see right) can be constructed by a function that takes a string parameter $mid (movie id) which references a global movie object created when reading spreadsheet (or database). *We will look at how to create a movie object next week.*

|  |
| --- |
| function moviePanel( $mid ) {  global $moviesObject;  echo <<<"BLACKDIAMOND"  <div id='panel\_$mid'>  <img src='../../media/poster\_$mid.png .../>  <h2>$moviesObject[$mid]['title']  $moviesObject[$mid]['rating']</h2>  <div class='screenings'>  BLACKDIAMOND;  foreach ( $moviesObject[$mid]['screenings'] as $day => $hour )  echo " <div>$day - $hour</div>\n";  echo " </div>";  echo "</div>";  } |

Identify a string that is created using heredoc syntax. Explain what benefits heredoc syntax offers.

Indicate the content is only a document (raw string) -> no need for escape sequence (\)

Where might the $movieObject variable be located?

It can be located in any functions as it is a global variable

Why is the keyword global used inside the function moviePanel()?

So the variable can be used in other function