

## MODULE PRACTICE

### PHP while loop shorthand

```
<ul>
<?php
$i = 0;
while ($i < 2):
?>
<li>Duck</li>
<?php
$i++;
endwhile;
?>
<li>Goose</li>
</ul>
```

In PHP, the shorthand for a `while` loop is:

```
while(/*condition*/):
# code block
endwhile;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endwhile`.

## PHP foreach loop shorthand

```
<ul>
<?php
$array = [0, 1];
foreach ($array as $i):
?>
<li>Duck</li>
<?php
endforeach;
?>
<li>Goose</li>
</ul>
```

In PHP, the shorthand for a `foreach` loop is:

```
foreach ($array as $value):
# code block
endforeach;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endforeach`.

## PHP for loop shorthand

```
<ul>
<?php
for ($i = 0; $i < 2; $i++):
?>
<li>Duck</li>
<?php
endfor;
?>
<li>Goose</li>
</ul>
```

In PHP, the shorthand for a `for` loop is:

```
for (/*condition*):
# code block
endfor;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endfor` .

## Embedding PHP Code

```
<html>
  <body>
    <?php
      echo "Hello PHP World!";
    ?>
  </body>
</html>
```

PHP can generate HTML when saved as a file with a **.php** extension. These files must always start with the tag `<?php` (closing tag is optional).

PHP can also be embedded into HTML. In this case, both opening tag `<?php` and closing tag `?>` are used.

For example, in the given code, the PHP code has been embedded into the HTML by enclosing it within the `<?php` and `?>` tags.

## Dynamic Webpages using PHP

PHP is a *server scripting language*. This server side code can be used to fill out HTML templates in order to create a complete HTML document for a visitor. This finished document is called a *dynamic webpage*.

Dynamic PHP webpages can deliver a custom set of assets to each visitor, unlike static pages which deliver the same set of assets to everyone.