PHP Exercises

In the following exercises, ensure that you have embedded your PHP code in a correctly structured HTML document with *head*, *title*, *body* and appropriate *H1*, *P* elements.

One
Write a PHP program that uses a *while* loop to print the phrase "Hello World" ten times

Two
Use an associative array to store information about 4 students and their favourite foods

Joe	Ahmed	Cassie	Ben
Smarties	Pringles	Marmite crisps	Mr Kiplings cakes

Use a *foreach* loop to print 4 HTML paragraphs, which state "x likes y" foods

Three
The following function calculates the average of three numbers

```
function averageOf3($num1,$num2, $num3){
return ( ($num1+$num2+$num3)/3);
}
```

Create a PHP page with this function at the top of the page and in the HTML Body block, try calling the function with three values, then print the result out. Remember that you can either

Declare a variable to hold the answer and then print it	Use the function inside a print statement directly

`$answer=averageOf3( ..etc);`
`print "<p>average of three is`
`".$answer."</p>";`
	`print "<p>average of three is`
	`".averageOf3( ..etc)."</p>";`

Four The following code is available from the Web Scripting lab page

```
1      <?php
2      function daysofweek($number){
3      $weeknames=array("Monday","Tuesday","Wednesday","Thursday","Friday","Satur
       day","Sunday");
4      return($weeknames[$number]);
5      };
6      ?>
7
8      <html>
9      <head>
10     <title>Days of week</title>
11     </head>
12     <body>
13     <h1>Days of week</h1>
14
15     <?php $dayno=4; ?>
16     <p>Today is <?php print daysofweek($dayno); ?></p>
17
18     </body>
19     </html>
```

What will the program print between the paragraph tags? Try the program out to see if you are correct.

Five
Change line 16 to   `<p> The first day is <?php print $weeknames[0]; ?></p>`

What will be printed out? Why does it behave this way?

Six   Alter the code to look like the following

```
1     <?php
2     function tomorrow($number){
3     $weeknames=array("Monday","Tuesday","Wednesday","Thursday","Friday","Satur
      day","Sunday");
4     $number=$number+1;         //Add one to number to find tomorrow
5     return($weeknames[$number]);
6     };
7     ?>
8
9     <html>
10    <head>
11    <title>Days of week</title>
12    </head>
13    <body>
14    <h1>Days of week</h1>
15
16    <?php $number=4; ?>
17    <p>Tomorrow is <?php print tomorrow($number); ?></p>
18    <p>The value of number is <?php print $number; ?></p>
19
20    </body>
21    </html>
```

What will be printed out – is it what you expect? What happens to $*number* when the program runs?

Seven
Alter line 16 to find out what happens when today is Sunday

```
16    <?php $number=6; ?>
```

What happens? Add an *if* statement to capture (and correct) this issue *inside* the function.

Eight
Write a PHP program to demonstrate four built in functions (choose functions that we have not used so far in class, from the list of available functions available from the online help system at php.net).