Second PHP Lab

This lab includes exercises for implementing a for loop and performing form validation. The labs must be implemented using a web server.
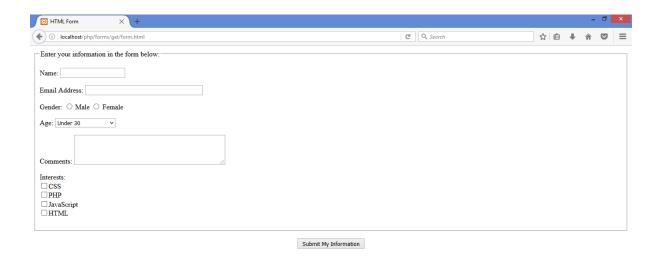
Exercise 1 – A for loop

Create a for loop which loops 5 times, and produces an output in the browser like the following:

Number: 1
Number: 2
Number: 3
Number: 4
Number: 5

Remember that php variable names start with a $ symbol. To print to screen you can use the echo command. For new lines, you could use the nl2br function, not forgetting the \n.

Exercise 2 – Form Validation

1. Create a html page and embed a form in it, like the following:

2. In the form tag, set the method and action attributes. For example:

   <form action="handle_form.php" method="get">

3. Ensure each of the form elements has the name attribute set. For example, the Name field:

```
<input type="text" name="name" size="20" maxlength="40" />
```

4. Create a php file. Make sure to assign it the same name as specified for the action attribute in the form tag – see step 2.

5. In the php file, perform validation on the following three fields:

   - Name
   - Comments
   - Email

   Use the isset() or empty() functions to determine if these field contain data. Also, use $_GET or $_POST, depending on method attribute used for form tag – see step 2. Example:

   !empty($_GET['name']) // If name field on form is populated this will evaluate to true.

   If any of the three fields are not populated then output a message to the screen, using echo, informing the user they must populate all these three fields.

6. Check if any of the interests check boxes are selected. If so, use a foreach loop to add the interests to a string to display on the screen. For example:

   foreach ($_GET['interests'] as $val) {}

7. If for example, the following fields were set:

Enter your information in the form below:

Name: Kevin O'Brien

Email Address: kevin.obrien@gmit.ie

Gender: ● Male ○ Female

Age: Between 30 and 60 ∨

Comments:
```
Web programming is just marvelous !!!
```

Interests:
☐ CSS
☑ PHP
☑ JavaScript
☐ HTML

When the php file created in step 4 opens in the browser, then you should see an output like the following:

Thank you, **Kevin O'Brien**, for the following comments:
```
Web programming is just marvelous !!!
```

We will reply to you at *kevin.obrien@gmit.ie*.

Your interests are:
PHP
JavaScript

Of course, if the form failed validation, no name, email or comments entered, then you should see something like:

Please go back and fill out the form again.

Back

Note: You can add a back button to the php file by adding the following code:

echo '<button onclick="history.go(-1);">Back</button>';

8. Save all changes and open the html page created in step 1 on your web server in a web browser to test your solution to this exercise.

Exercise 3 – Implement a header and footer

1. Create a new html page with the following content:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title><?php echo $page_title;?></title>
</head>

<body>

<p>page header</p>
```

2. Save this file as header.html in the same location as the php file created in exercise 2.

3. Create a new html page with the following content:

```
    <p>page footer</p>
</body>
</html>
```

4. Save this file as footer.html in the same location as the php file created in exercise 2.

5. Add the following 2 lines of code to the top of the php script created in exercise 2:

```
//page title for header file
$page_title = 'PHP Form Handler';
include('header.html');
```

Note: $page title and relation to <title> in header.html which includes php script!

6. Add the following line of code to the bottom of the php script created in exercise 2:

```
include('footer.html');
```

7. Save all changes, and reload the html page created in exercise 2 on the web server. Fill in the fields and submit for validation. Note that the php page now includes the information from header.html and footer.html:

page header

Thank you, **Kevin O'Brien**, for the following comments:
`Web programming rules`

We will reply to you at *kevin.obrien@gmit.ie*.

Your interests are:
PHP
JavaScript
HTML

page footer