Week 5 Practical Exercises

Note:
- Exercise 1 will be assessed as part of the Practical Set 1 submission.
- Include HTML comments for your student ID, Name, and Practical Class Time at the top of each source file created.
- All files must be uploaded to your TWA web site before submission of Practical Set 1.

Objectives:
- Implement html forms to capture user data
- Design user-friendly and accessible html forms
- Complete exercises 1 below and upload the solution to your TWA web site in folders indicated in the exercise. Test and **validate** the pages.

Suggested Resources:
- CSS tutorial   `https://www.w3schools.com/css/default.asp`
- CSS reference   `https://www.w3schools.com/cssref/default.asp`
- **CSS validator**   `https://jigsaw.w3.org/css-validator/`
- HTML tutorial   `https://www.w3schools.com/html/default.asp`
- HTML 5 tutorial   `https://www.w3schools.com/html/html5_intro.asp`
- HTML tag list   `https://www.w3schools.com/tags/default.asp`
- **HTML validator**   `https://validator.w3.org`

Exercise 1:

This is an extension of exercise 2 from week 4.

- **Copy** `practicals/week4/PatientForm.html` from your TWA web site into the `practicals/week5` folder of your TWA web site.
- **Create** a CSS file named `week5Styles.css` in the `practicals/css` folder on your TWA web site. This file will be used to link to and style `practicals/week5/PatientForm.html`.
- **Link** `week5Styles.css` to `practicals/week5/PatientForm.html` using the appropriate html code.
- The general display of the form with the CSS applied will look like figure 1 depending upon the form inputs and layout you have used in the html.

Add CSS rules to `week5Styles.css` that sets
   a) Borders to 0 and box-sizing to border-box for all elements.
   b) for the page: background colour to white, typeface to Helvetica, text colour to black, text size to 100% of browser default.
   c) for any headings in the page: text colour to `0086b3`, typeface to Georgia.
   d) for the most important heading on the page: centre across page.
   e) for the form: width to 80% of the page width, background colour to `f2f2f2`, padding of 30 pixels all around, margins such that the form is centred across the page, border radius of 20 pixels.
   f) for text boxes, selection lists, text areas: width of 45% of the form width, padding of 10 pixels all around, border radius of 20 pixels.
   g) for text boxes, selection lists, text areas that have the focus: background colour of `e6f9ff`.
   h) for checkboxes and radio buttons: automatic width.
   i) for the submit button: automatic width, background colour of 0086b3, text colour of e6f9ff.
   j) left edges of input devices are appropriately left aligned (ie, no 'jaggies')
   k) the page layout to be responsive to different screen resolutions. The form needs to be suitable to be used on both desktop and mobile sized screens; for the purpose of this exercise 414 pixels is regarded as the maximum width of a mobile device.

Exercise 2:

- **Create** a JavaScript file named `week5validation.js` in the `practicals/javascript` folder on your TWA web site. This file will be used to link to and validate form input in `practicals/week5/PatientForm.html`.
- **Link** `week5validation.css` to `practicals/week5/PatientForm.html` using the appropriate html code.

   a) Add the following function code to `week5validation.js`:

```
function checkEmptyInput (inputItem) {

  let length = inputItem.value.length;

  if (length == 0) {

    inputItem.style.background = "#ffb3b3";

  } else {

    inputItem.style.background = "#e6f9ff";

  }

}
```

b) Add the following event handler to the surname text box in your form in `practicals/week5/PatientForm.html`

      `onblur="checkEmptyInput(this);"`

c) Load the form in the browser to test the function. What does the function do? Can it be applied to other inputs? Experiment applying the same function to other inputs in the form. Why does it work for some inputs and not others?

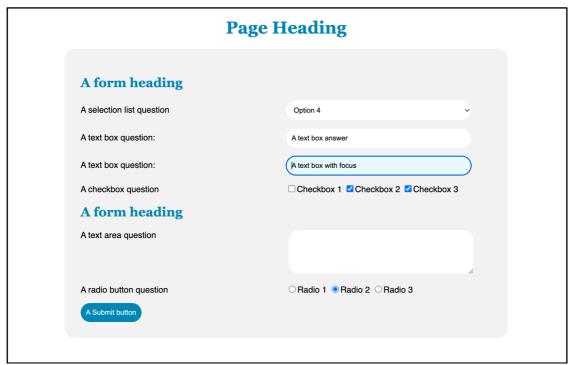d) This exercise will be continued in the week 6 practical exercises to add further input validation to the form.

Figure 1