## **Introductory/Revision Exercise**

Using a text-editor, create a web-page that includes a form, e.g.:

```
<!DOCTYPE html>
<html>
    <head>
    </head>
    <body>
        <form name="theForm">
        </form>
        </body>
</html>
```

The form should have a name, but don't bother specifying an action or method since the form won't be submitted over the internet.

• Within the <form> tags, create a text-area, e.g.:

```
<textarea name="txtBox">Some text...</textarea>
```

• *Outside* of the <form> tags, create a button, e.g.:

```
<button onclick="processForm()">Process Form</button>
```

View the page in a browser and check that the text-area and button display correctly.

In the <head> section of the HTML document, add a pair of <script> tags, e.g.:

```
<script type="text/javascript">
</script>
```

Within the <script> tags, write a function that is called when the button is clicked.

The function should have the same name as that specified in the onclick attribute of the button, e.g.:

```
function processForm() {
```

Within the function, write a line of code that:

- recovers the text within the text-area
- displays it in a dialog-box.

You can access the properties of form-elements in the following way:

value is a property which represents the text in a text-area. It can be read or written.

Other properties of a text-area, such as its size, color, visibility, etc., can be accessed in the same way as the value.)

To display the recovered text, use an alert dialog-box, e.g.:

```
alert(data);
```

Where data is a quoted string or variable to be displayed.

In this case, it should be the reference to the text in the text-area, obtained as described above:

```
alert(document.theForm.txtBox.value);
```

View your page in a browser. Type some text into the text-area, then click the button. This should cause a dialog-box to appear, containing the text you typed into the text-area.

Add a *selection-box* to your web-page. Selection-boxes are created as follows:

```
<select name="selBox">
   <option>Option 1</option>
   <option>Option 2</option>
   <option>...</option>
   <option>Option n</option>
   <option>Option n</option></select>
```

View the page in a browser and check that the selection-box displays correctly.

Write a function which is called whenever the selection in the selection-box is changed, and which displays (in a dialog-box) the new selection.

- You can call the function by adding an onchange event-handler to the opening <select> tag.
  - o onchange works in much the same way as the onclick event-handler used with the <br/>
    <br/>button>.
  - o Make sure the function-name specified in the event-handler matches the function you wish to call in the script.
- Selection-box properties can be accessed in the much same way as those of text-areas
  - o The relevant property of a selection-box is selectedIndex, an integer which indicates which of the options has been selected (counting from zero).
  - o Obtain this property and display it in a dialog-box whenever the selection is changed.
  - Check that the displayed value is what you expect (e.g., 0 if the first option is selected, 1 if the second option has been selected, and so on).

The selectedIndex indicates which of the options has been selected, but not what it is.

Modify the function so that it reports the *text* of the selected option.

The options within a selection-box are organised as an array, and the text within each option is held in a property called text.

Therefore you can access the text of a particular option (either to read it or write it) in the following way:

## document.selBox.options[i].text

Where i is the selectedIndex of the required option.

If time allows when you have all of the above working:

- modify your selection box so that it lists the 12 months of the year
- add an onchange event-handler to the box which calls a function whenever the month is changed.
- create a second selection box that contains the numbers 0-31
- write a function that sets the appropriate number of days in the second box whenever the month is changed in the first box.