**Laboratory Sheet 2**

# JavaScript

**Published date:** Monday 30 September 2019

**Due Date**: Monday 28 of October 2019, 9:00 am

Successful completion of this lab is worth **2%** of the module marks.

Successful completion of all 7 labs is worth an additional 1% of the module marks.

**Note:**

1. All the code (e.g., .html, .css and .js files) must be submitted using Brightspace and uploaded to Labs / Lab-2 / Lab 2 – Upload, in zipped format. Name this <student-id>-lab-1.zip where <student-id> is something like C12345678.
2. Must be demo-ed in the labs either before or after submission.
3. Failure to provide code or demo will result in a mark of 0%.

**What you need:** Notepad++ (or another); Chrome (or another); HTML5, CSS, JavaScript.

**Where you can get support:** lecture notes on webcourses + full references on:

<https://www.w3schools.com/js/default.asp>

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| **Tip:** when in Chrome or Firefox, press F12 to use “Dev Tools”, such as theConsole and Inspect Elements,to debug your code. |

1. Continue working on your CV web page from last week. Change the webpage in ways to select the style (external CSS) by clicking a button.

NOTE: be careful with reading href in Chrome, it always returns the full URL, even if you used a relative path.

1. Create 3 questions about yourself on the page. There should be a hidden answer under each question. When the user clicks a “show answer” button, the answer should appear. The text on the button should change to “hide answer”. Clicking the button again at this point should hide the answer and change the button’s text back to “show answer”.
2. Add an interactive image gallery with photos of yourself. At the top of the page there should be a large image. Under the image there should be a ribbon of small images (thumbnails). When the user clicks one of the thumbnails, the large image at the top should change to the full-size version of the clicked thumbnail.

*Use plain JavaScript for this, no frameworks yet*.

1. Clicking on any thumbnail in the interactive gallery will make it display a border around that thumbnail. Clicking another thumbnail will make the border disappear from the previous one and be displayed in the current one.
2. Make the webpage display the current time (hours:minutes:seconds) every 3 seconds, under the DIT logo.

Get help here: <https://www.w3schools.com/jsref/met_win_setinterval.asp>

1. Hovering the mouse over the timer will make its background be assigned a random colour.