# Exercise 1: HTML

The aims of this lab are:

- to write and validate some HTML
- take the basic first steps in developing code with CoPilot
- to familiarise yourself with the VSCode development environment.

W3Schools

Have a look through the W3Schools Tutorial: https://www.w3schools.com/html/default.asp from the start up to HTML Block and Inline, and the articles in the section on HTML Forms.

You absolutely do not have to complete every exercise, but it is an especially useful reference, and we recommend being familiar with the w3schools tutorials.

Create your own home page (without CoPilot)

The first exercise in this worksheet is to familiarise yourself with HTML. This should be done without CoPilot to give you some initial practice at writing HTML yourself. You can disable CoPilot completions by clicking on the CoPilot icon and then selecting *Disable completions*.

Create an HTML5 home page for yourself. The home page should contain:

- A welcome message
- A photo
- A bullet list of the units you are studying, with each item in the list linked to the Unit Outline for that unit
- A table containing your timetable

Do not be too concerned about page output layout at this stage although you should use suitable indentation to show the structure of the page source (see this tutorial for setting up auto-indentation in VSCode).

Open the page in Firefox, Chrome and Opera to check that it works as expected. You may also want to have a look at it with Edge (if you are in Windows). Depending on your operating system, you can also check it under Safari and SeaMonkey.

Try adding a form to the page. The form should collect a user's name, email and date of birth. Use HTML input types, and check that they work in the browser. This W3Schools page has some information on how to use JavaScript to take information from HTML forms.

Compare with CoPilot

Open a new file, re-enable CoPilot and press `ctrl + I` to open a prompt. Try writing a prompt that will get CoPilot to generate the webpage for you. Now think about these questions:

- Do you understand the code that CoPilot generates? Lookup anything you don't understand.

- Has CoPilot got the code right?
- What do you need to do finish the assignment?
- Does CoPilot tell you what it hasn't done for you?
- How much time does CoPilot save you?

Validation

- Validate both versions of your HTML5 page using the validation service at: http://validator.w3.org/.
- Try to fix any problems that appear during validation.