

EECS 1012. Lab 1: VS Code, HTML, Pre-Lab Quiz, Attendance, Submission

A. IMPORTANT REMINDERS

- 1) You should attend your own lab session (the one you are enrolled in). If you need to change your lab enrollment, you should go to the department. Instructors or TAs cannot change your enrollment.
- 2) You are required to pass the pre-lab mini quiz posted on eClass not later than the first 10 minutes of your lab time. You have 3 attempts; and you need at least 80 % to pass. However, each time you may get some different questions. **Make sure you do not start the pre-lab quiz unless you have done the pre-lab tasks and paid attention to the hint below.** Failing the pre-lab mini quiz is equal to failing the whole lab.

Hint: pre-lab quiz 1 may have questions from the course outline/syllabus, academic honesty slides, and Intro slides among other questions.

- 3) You can also have your work verified and graded during the lab sessions. Feel free to signal a TA for help if you stuck on any of the steps below. Yet, note that TAs would need to help other students too.
- 4) Submit your lab work in eClass before the deadline.

B. IMPORTANT PRE-LAB TASKS YOU NEED TO PERFORM BEFORE THE LAB

- 1) Find out which lab you are officially enrolled in.
- 2) Download this lab description and read it completely. Save the supplied files in a separate folder (directory) on your computer, name that folder Lab01.
- 3) Read the course outline and syllabus.
- 4) Read the academic honesty module on eClass.
- 5) Read the Intro slides; there are some links in the last two/three slides, make sure you explore all the links and go over some basic/first steps.
- 6) Download and install **VS Code** on your computer from here: <https://code.visualstudio.com/download>
- 7) Learn basics of HTML including tags like **p**, **img**, **h1**, **h2**, **html**, **body**, and **li** from <https://www.w3schools.com/>
- 8) Also learn about what a descriptive tag is in HTML and what an empty tag is.

C. GOALS/OUTCOMES FOR LAB

- 1) To get you familiar with the lab environment that uses Linux,
- 2) To get you familiar with a code editor, in this case Visual Studio Code (aka VSCode),
- 3) To get you familiar with writing a simple HTML document from scratch,
- 4) To get you familiar with your TA, lab attendance, and your work evaluation,
- 5) To get you familiar with submitting your lab results through eClass.


D. TASKS

Note: to do the tasks that were originally performed using university lab computers on your own computer, you need to install 1) a plain text editor (preferable with code syntax highlighting, e.g., VS Code), and 2) Firefox. Your computer *does not* need to run Linux. You may use other browsers as well; however, keep in mind that the shortcuts, the names, and the layout of additional development-related features, and menus tend to differ across browsers.

Part 0: if you do not have an EECS account, you should create one. (Note that most first year students do not have one.) Creating one is easy: Just go to <https://webapp.eecs.yorku.ca/activ8/> and follow the instructions.

Part 1: Using Firefox on your own computer (nothing is submitted for this part)

Launch Firefox (on lab computers this would most probably automatically render the `lassonde.yorku.ca/eecs` webpage),

- a) click on this icon: 

If the icon is not on the current screen, use whichever method is applicable for your computer

- b) Using Firefox, open the supplied **index.html** file, which has a title “Web Sandbox”. You should see a page starting with “Welcome to the Web Sandbox!”.
- c) Close Firefox.

Part 2: Manipulating a file using VS Code

- a) Find the `index.html` file that came with this lab on your own computer
- b) Now, there are two ways to open this html file in VS code:
 - a. right click on `index.html`, and click on **Open With Other Application** (the exact phrasing will vary depending on the operating system you use). If you do not see **Visual Studio Code** among the recommended applications, click on **View All Applications**, and scroll down until you see it, then double click on it. **VS Code** may (or may not) have your web browser automatically open the Visual Studio webpage. If it does, just close the web browser.
 - b. alternatively, you may want to open the Visual Studio Code first, e.g., by going to Activities and clicking on its icon from list of applications. Once the VSCode is open you can go to “File>Open File ...” and from the dialog box navigate to your folder that contains `index.html`. Then click on `index.html`, to open in VSCode.

What you now see should look like this:

Is the *content* of this file familiar to you? If your answer is negative, do Part 1 (above) again.

- c) Now, go to line 8 and change it to this: `<h1>Hello World! Welcome to the Web Sandbox! My name is MYNAME!</h1>`
 You should replace MYNAME with your actual first and last name (using the English alphabet).
 To save these changes to the file, press **Ctrl + S**, or click on **File** (near top left) and then on **Save**.

Part 3: reopening your page in a browser

Repeat the steps in Part 1: Launch Firefox again, and then open your file. (If you do not know how, read Step 2 of Part 1 again.) Do you see your first and last name in what this time Firefox renders!? If not, do Part 2 again.

Part 4: creating an HTML document named `myFirst.html`.

- 1) Launch the VSCode editor
- 2) In VSCode, open folder where you saved the lab files; then make a new file and save it as `myFirst.html`

Now, type the following lines of codes in your `myFirst.html` file, and replace `...` with some appropriate code:

```
<!DOCTYPE html>
<html>
  <head>
    <title> John first page</title>
  </head>
```

```

<body>
  <h1> Welcome to my first website</h1>
  <h2> my name is yourname</h2>
  ...
</body>
</html>

```

- 3) Open the resulting file in Firefox. Its structure should look like the following figure. Make sure **a)** you replace the name with your own name, **b)** replace the hobbies with at least 4 of your own hobbies, and **c)** replace the favourite places/images, with at least 4 of either your favourite foods, or favourite drinks, or favourite arts, or favourite cars, or favourite hair styles, etc. The width and height of all the images should be the same. All images should be references to images available on Internet (not a local file on your computer).

Hint: you need the following html tags: <h1>, <h2>, <p>, , <u>, <hr>, or , , and

Welcome to my first website

My name is John Smith





I know EECS1012 is a challenging course, and I need to **engage** really well in problem solving activities from first week of classes for every week.

I have been told that if I treat 1012, 1022, 2030, and 2011 each as a 6-credit course, and really learn the underlying concepts and skills, I will enjoy rest of my CS program. In fact rest of my life! as long as I am in the CS business.

BTW, these are my hobbies:

- strategic board games
- volleyball
- sudoku and kakuro

And, these are images of my favourite places to visit:

Part 5: Verifying your work and submitting it to eClass.

For details of this part, please see SUBMISSIONS section below.

E. SUBMISSIONS

- 1) Manual verification by a TA
You may want to have your TA verifying your lab before submission. The TA will look at your various files in their progression. The TA may also ask you to make minor modifications to the lab to demonstrate your knowledge of the materials. The TA can then record your grade in the system.
- 2) eClass submission
You will see an assignment submission link on eClass. Submit your **index.html** and **myFirst.html** to the appropriate lab folder withing the deadline. Otherwise, that is equivalent to failing in this lab. We do not accept any work after the deadline. We do not extend the deadline either. We do not accept submissions by email. We have already provided all students with several grace tokens for a bad day they may have. For academic fairness to all students, we do not make exceptions by providing extra grace tokens to anyone.

F. AFTER THE LAB

Study each and all the HTML elements/tags that you saw in this lab (such as <head>, <body>, <h1>, , etc.) via <https://www.w3schools.com/>