

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

A. IMPORTANT REMINDERS

- 1) This lab including the pre-lab mini quiz is about 1.2 % of your overall grade.
- 2) You must 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. TAs are available via Zoom to help you.
- 3) You are required to arrive on time: anyone later than 15 minutes may not be admitted to the lab.
- 4) You are required to complete the pre-lab mini quiz posted on eClass not later than the first 10 minutes of your lab time.

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

- 5) 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.
- 6) You can submit your lab work anytime up to 160 minutes after the official start time of your lab.

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, here:
https://www.eecs.yorku.ca/course_archive/2020-21/W/1012/
- 4) Read the academic honesty slides available on eClass.
- 5) Read the Intro slides; make sure you also explore all the links to the resources on the internet and go over some basic/first steps.

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


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

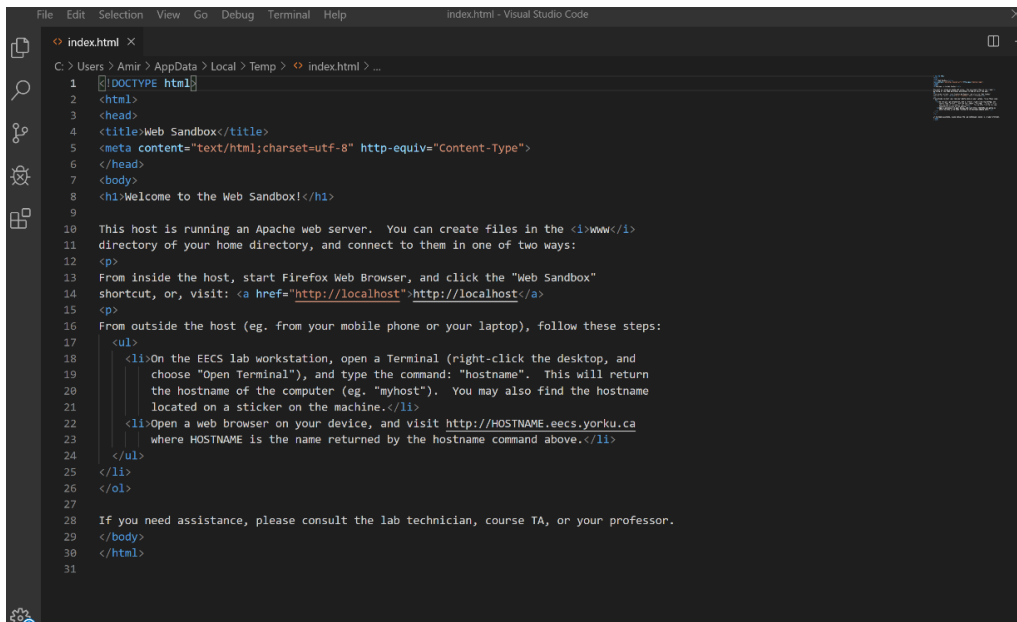
a) click on this icon: 

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, 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. What you now see should look like this:



```
File Edit Selection View Go Debug Terminal Help
index.html - Visual Studio Code
index.html x
C: > Users > Amir > AppData > Local > Temp > index.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Web Sandbox</title>
5 <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
6 </head>
7 <body>
8 <h1>Welcome to the Web Sandbox!</h1>
9
10 This host is running an Apache web server. You can create files in the <code>www</code>
11 directory of your home directory, and connect to them in one of two ways:
12 <p>
13 From inside the host, start Firefox Web Browser, and click the "Web Sandbox"
14 shortcut, or, visit: <a href="http://localhost">http://localhost</a>
15 <p>
16 From outside the host (eg. from your mobile phone or your laptop), follow these steps:
17 <ul>
18 <li>On the EECS lab workstation, open a Terminal (right-click the desktop, and
19 choose "Open Terminal"), and type the command: "hostname". This will return
20 the hostname of the computer (eg. "myhost"). You may also find the hostname
21 located on a sticker on the machine.</li>
22 <li>Open a web browser on your device, and visit <a href="http://HOSTNAME.eecs.yorku.ca">http://HOSTNAME.eecs.yorku.ca</a>
23 where HOSTNAME is the name returned by the hostname command above.</li>
24 </ul>
25 </li>
26 </ol>
27
28 If you need assistance, please consult the lab technician, course TA, or your professor.
29 </body>
30 </html>
31
```

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.
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 the images should be the same.

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 are required to have one of the TAs verify 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.

F. AFTER THE LAB

Study each of the element tags that you used in this lab via <https://www.w3schools.com/>