

Lab06

Mission (should you choose to accept it)

- Learn HTML Elements and Structures,.

For Students Who Just Registered to PCT0101

Before you attempt the questions in this lab, kindly follow the instructions in Lab01 and Lab04 to setup Thunkable and complete the problems as well.

Introduction to Web Design

Starting from this lab, we will learn the languages to design Web pages, which are **HTML (Hypertext Markup Language)** and **CSS (Cascading Style Sheet)**. Since web design practices change very quickly, it is best that we refer to online tutorials that are constantly updated to keep up with the latest trend. We will also download a programming editor to write HTML and CSS scripts for the exercises that we prepare.

Codecademy

Codecademy is an online learning platform that provided quality introductory courses to programming and scripting language. It contains free courses for learning basic HTML and CSS. We will use the **Learn HTML** lesson in Codecademy as our main source of learning HTML.

To learn Codecademy courses, we need to sign up. Here are the instructions to sign up and enrol for the **Learn HTML** course.

1. Go to <https://www.codecademy.com/>.
2. Sign up using your MMU Google Account and login (please use MMU Google Account and not your personal account so that your instructor can check your progress if need arise).
3. Click the “**Go to Catalog**” link at the top right of the page (see Figure 1 below).
4. Click the “**HTML and CSS**” link under **Languages** on the left, and then click the **Learn HTML** course (see Figure 2 below).
5. Click the **Start** button to enrol for the course (see Figure 3 below).

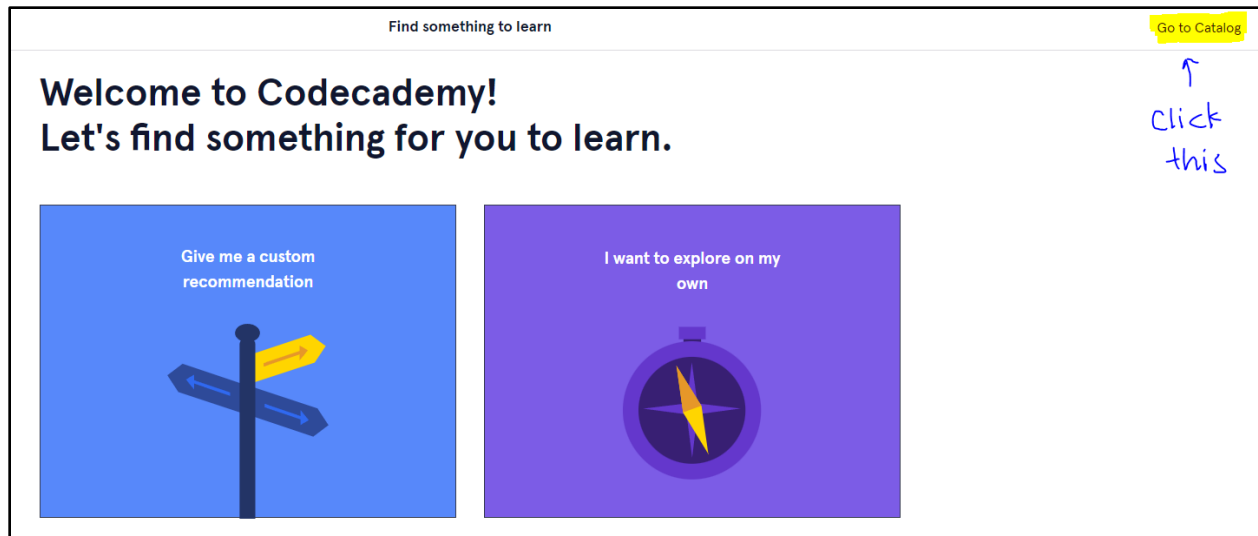


Figure 1 – Click the “Go to Catalog” link.

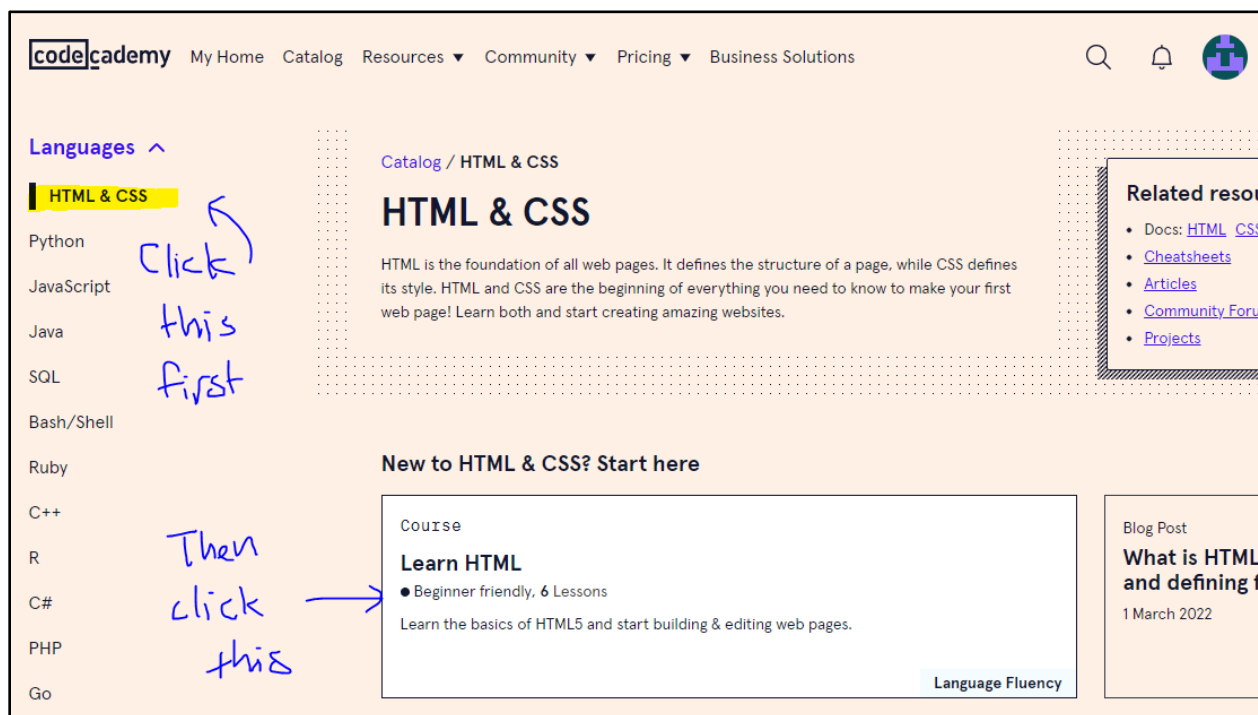


Figure 2 – How to select the “Learn HTML” course.

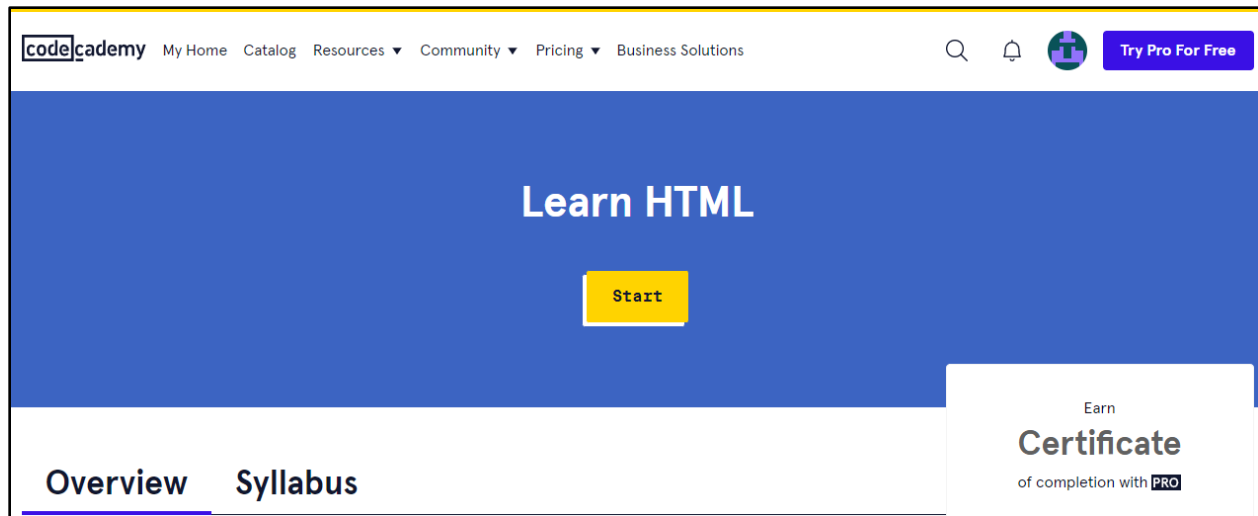


Figure 3 – Click the Start button to enrol the “**Learn HTML**” course.

By now, you should have entered the Codecademy learning platform and may begin taking lessons.

Lessons to Follow for This Lab

If you click on the **Course Menu** link at the top of the learning platform, you will be shown the syllabus of the Learn HTML course, which contains 4 modules:

1. Elements and Structure
2. Tables
3. Forms
4. Semantic HTML

For this week, your goal is to complete **all the free lessons** under the **Elements and Structure** module. You cannot take lessons designed for PRO account; hence you can ignore them. Upon completing the Element and Structure module, you will get the following progress:

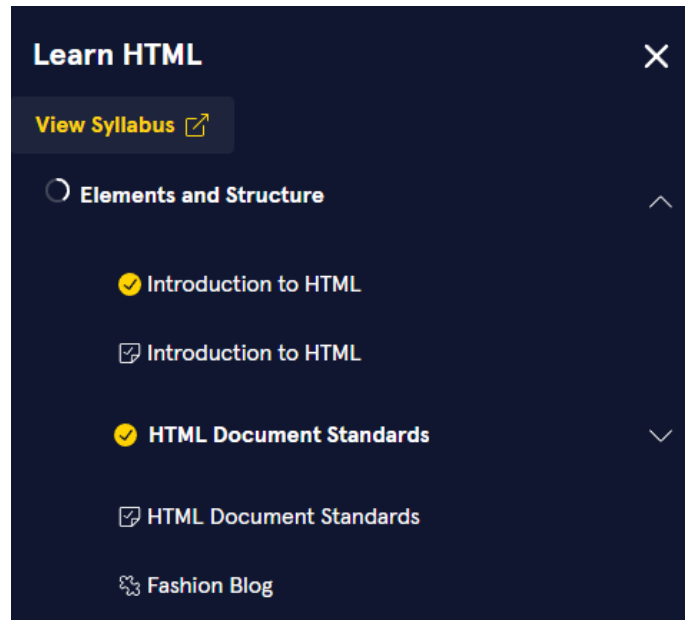


Figure 4 – What you will see when you have completed all free lessons under Elements and Structure.

You may now install Visual Studio Code before trying the following practice exercises.

Install Visual Studio Code

To write HTML and CSS scripts, we need a programming editor. In this course, we will be using Visual Studio Code, a popular programming editor that supports many programming languages. Here are the instructions to install Visual Studio Code.

1. Download the installer [here](#).
2. Run the installer to install.

Practice Exercises

In each lab session, you are given a few problems to solve. Your goal is to accomplish as many problems as possible. Don't worry, if you can't complete the problems within the lab session, you can always try it any time after the session. You won't be penalized for not completing any problems.

Problem 1 (MMU Foundation of Information Technology Website): [Medium]

In this problem, we will design a web page to introduce MMU Foundation of Information Technology by applying what we have learned from the earlier HTML lessons. We will write an HTML page using Visual Studio Code.

In the folder that contains this document, there are several files as follows:

1. `problem1.txt` – Contains raw data about the Foundation of Information Technology.
2. `Problem1-ExpectedOutput.pdf` – The expected output of the HTML page
3. `MMUFCI.mp4` – A video promoting MMU FCI.

Your goal is to design one web page, named `problem1.html`, that mimics the expected output shown in `Problem1-ExpectedOutput.pdf`. Ensure that you complete the following tasks:

- The title of the page is “MMU | FCI | Foundation of Information Technology”
- The MMU FCI Logo is placed at the top of the page. When it is clicked, it will open the official MMU FCI website at a separate tab.
- Use the correct HTML headings for “Foundation of Information Technology”, “Introduction”, “Entry Requirements”, “Programme Structure”, “Trimester 1”, “Trimester 2”, “Trimester 3”, “Contact Us”, “Address”, and “Personnel”.
- Apply the appropriate styling (i.e. either boldface, italic, or both) to the correct words or phrases.
- Include the promotional video “`MMUFCI.mp4`” above the “**Introduction**” heading.
- Add the necessary links at the bottom of the page.

To start, right-click on the folder that contains this document and select “Open with Code”. This would execute Visual Studio Code to open the folder and show the files in the folder.

You can now create a new HTML file named `problem1.html` file and write the necessary HTML elements.

Once you have completed, double-click on your HTML page. This should invoke your browser and display your HTML page. Please show your work to your instructor to get further input.

Acknowledgement

The raw data of MMU Foundation of Information Technology is obtained from [here](#).