

Assignment Instructions: HTML Basics

Objective

In this assignment, you are required to create a simple HTML document. The document should contain basic HTML structure with the necessary tags like `<html>`, `<head>`, and `<body>`.

You will also be tested using a custom JavaScript test case to ensure that your HTML file meets the required structure and content.

Instructions

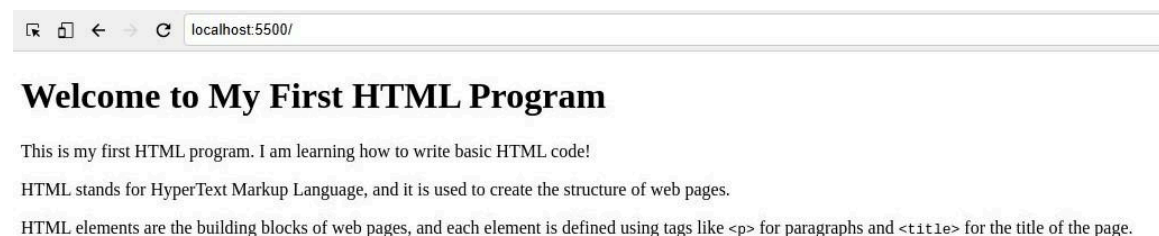
1. Implementing the HTML Basics

You will start with a blank `index.html` file. Follow the instructions below to implement the required HTML content.

1. HTML Structure: You need to create the basic structure of an HTML document.
2. Content: The document must include an `<h1>` heading, three `<p>` paragraphs, and a `<title>` tag in the `<head>` section.
3. The HTML file should be structured as follows:
 - The `<html>` tag must have a `lang='en'` attribute.
 - The `<head>` section must contain a `<meta charset='UTF-8'>` tag and a `<meta name='viewport'>` tag for responsiveness.
 - The `<title>` tag must be set to 'My First HTML Program'.
 - The `<body>` section should include an `<h1>` header with a greeting message and three `<p>` paragraphs explaining HTML.

2. HTML Code

Here is the exact HTML code you need to implement inside your `index.html` file:



3. Explanation of the HTML Code

Here is a breakdown of the HTML code:

1. HTML Structure:

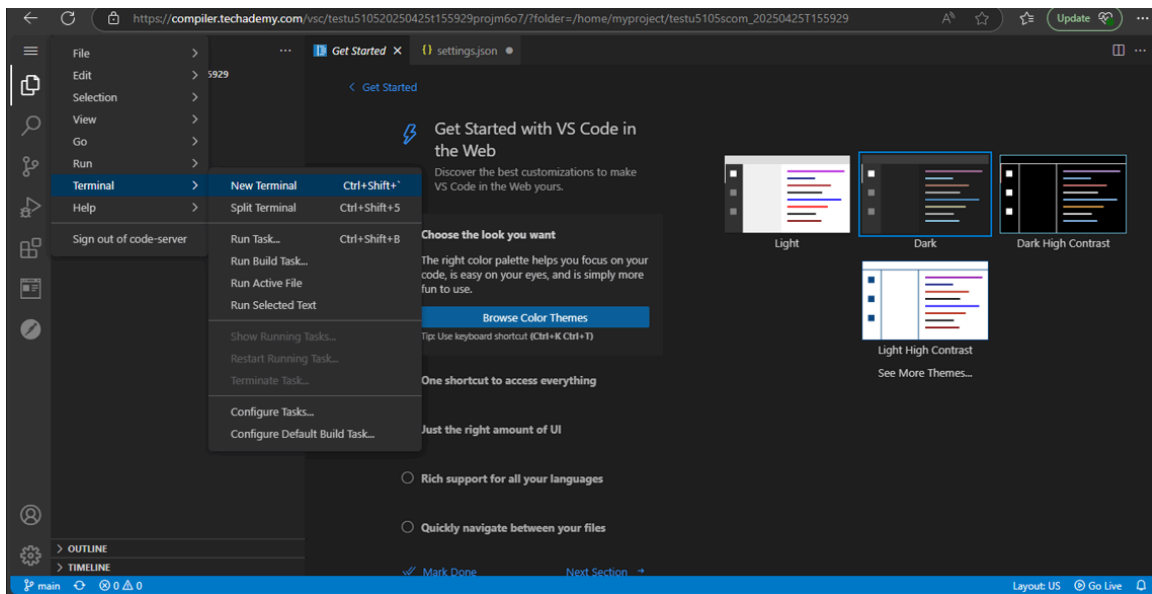
- First, begin your HTML document with the `<!DOCTYPE html>` declaration to define it as an HTML5 document.
- The `<html lang='en'>` tag wraps the entire content of your document and specifies that the language is English.
- Inside the `<head>` section, you will need to include the following:
 - A `<meta charset='UTF-8'>` tag, which ensures the document uses the UTF-8 character encoding.
 - A `<meta name='viewport' content='width=device-width, initial-scale=1.0'>` tag, making sure the page is responsive and scales properly on different devices.
 - The `<title>` tag, which sets the title of the page as shown in the browser tab. The title should be 'My First HTML Program'.
- Inside the `<body>` section, you need to add:
 - An `<h1>` tag for the main heading as 'Welcome to My First HTML Program'.
 - Three `<p>` tags representing paragraphs. Here's what each paragraph should contain:
 - The first paragraph should say: 'This is my first HTML program. I am learning how to write basic HTML code!'
 - The second paragraph should define HTML: 'HTML stands for HyperText Markup Language, and it is used to create the structure of web pages.'
 - The third paragraph should explain HTML elements: 'HTML elements are the building blocks of web pages, and each element is defined using tags like `<p>` for paragraphs and `<title>` for the title of the page.'

Assessment Guidelines

Step 1:

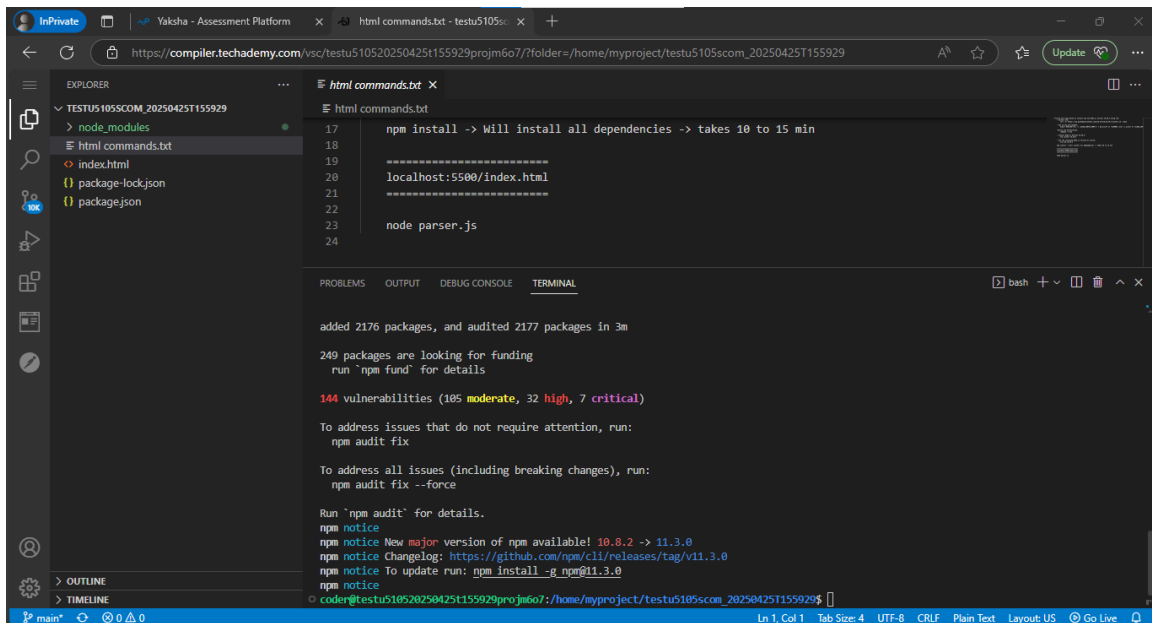
- Once the VS Code interface loads in the browser, wait until you see the workspace and left sidebar.
- To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.

Now in the terminal you need to install all dependencies using the “npm install” command.



Step 2:

- Once installation completes, go to the **bottom right corner** of the VS Code screen.
- Click the **"Go Live"** button – This will start a **live server**, The server will run at port **5500** (e.g., <http://localhost:5500/>)

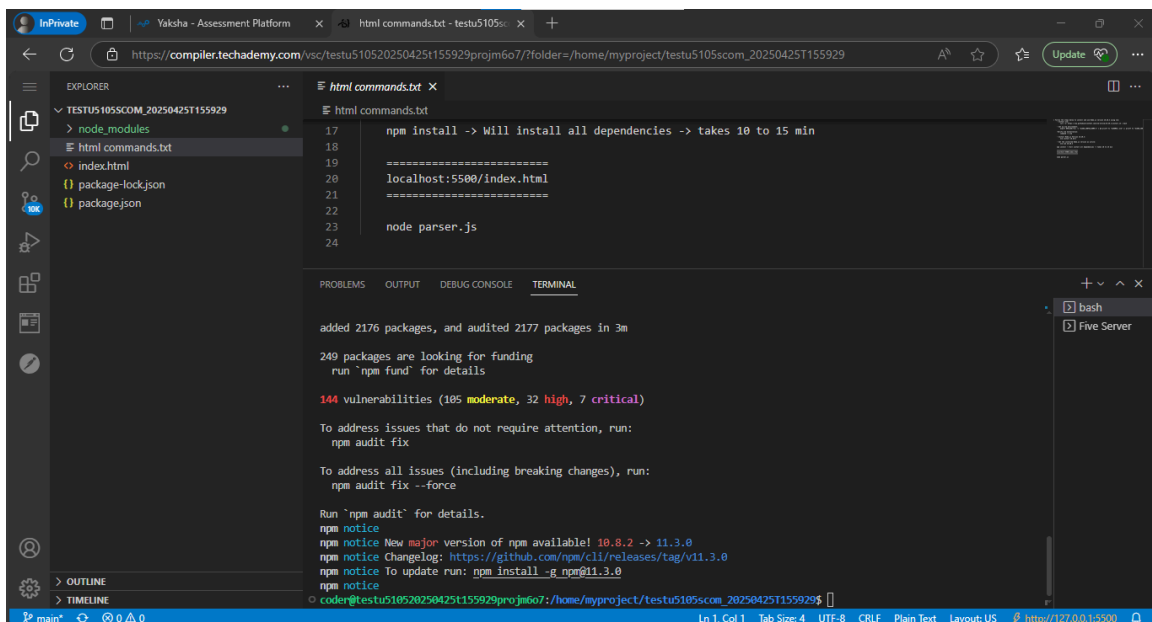


The screenshot shows the VS Code interface with the Explorer sidebar on the left displaying the file structure of a project named 'TESTUS105SCOM_20250425T155929'. The file 'html commands.txt' is selected. The main editor area shows the content of 'html commands.txt', which includes instructions for installing dependencies and running a live server. The terminal at the bottom displays the output of the 'npm install' command, showing that 2176 packages were added and 2177 packages were audited. It also lists 144 vulnerabilities (105 moderate, 32 high, 7 critical) and provides instructions on how to address them using 'npm audit fix' or 'npm audit fix --force'. The status bar at the bottom indicates the current file is 'main' and the editor is in 'Go Live' mode.

```
17 npm install -> Will install all dependencies -> takes 10 to 15 min
18
19 =====
20 localhost:5500/index.html
21 =====
22
23 node parser.js
24
```

added 2176 packages, and audited 2177 packages in 3m
249 packages are looking for funding
run `npm fund` for details
144 vulnerabilities (105 moderate, 32 high, 7 critical)
To address issues that do not require attention, run:
npm audit fix
To address all issues (including breaking changes), run:
npm audit fix --force
Run `npm audit` for details.
npm notice
npm notice New major version of npm available! 10.8.2 -> 11.3.0
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v11.3.0>
npm notice To update run: npm install -g npm@11.3.0
npm notice

Ln 1, Col 1 Tab Size: 4 UTF-8 CRLF Plain Text Layout: US Go Live



This screenshot is similar to the one above, but it highlights the 'Go Live' button in the bottom right corner of the VS Code interface. The terminal output is the same, showing the results of the 'npm install' command. The status bar at the bottom indicates the current file is 'main' and the editor is in 'Go Live' mode.

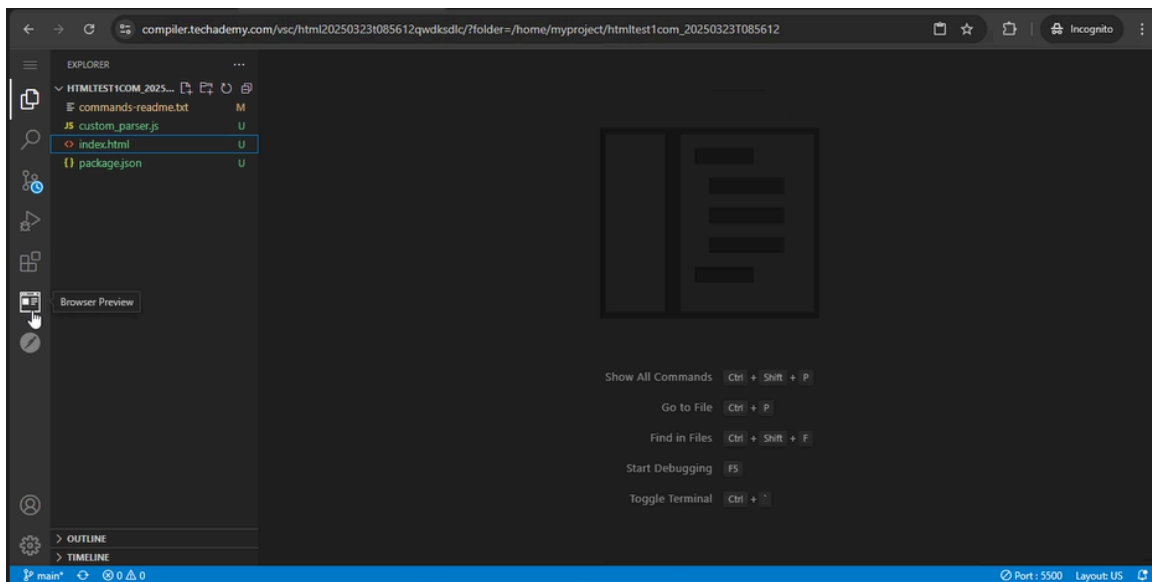
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npm notice

Ln 1, Col 1 Tab Size: 4 UTF-8 CRLF Plain Text Layout: US <http://127.0.0.1:5500>

Step 3: Preview Output in Browser

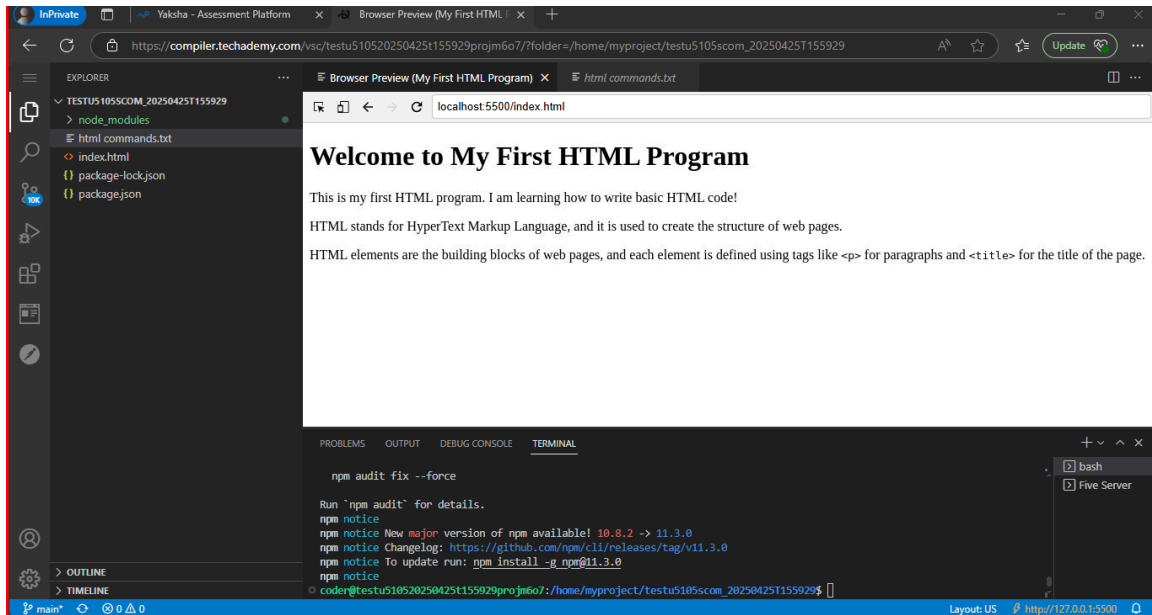
- This is a **web-based application**, so to view it in a browser, use the **internal browser inside the workspace**.
- Click on the **second last icon on the left panel** (the one labeled "**Browser Preview**"). This will open a tab within VS Code where you can **launch and view your application**.
- **Note: The application will not open in your system's local browser — it must be viewed using the internal browser.**



In the **Browser Preview tab**, type the following URL in the address bar and press **Enter**:

Your file is being served on: `localhost:5500/index.html`

This will load your HTML file and display the output of your web page **inside the internal browser**.



Step 4:

- Go back to the **terminal** and type the following command, then press **Enter**:

node parser.js

- This command will **execute the validation script** and display the test results for your HTML file in the terminal.

Mandatory Assessment Guidelines:

- All actions like build, compile, running application, running test cases will be through Command Terminal.
- To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.
- This editor Auto Saves the code.
- If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.

5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.

Note: The application will not run in the local browser

7. You can follow series of command to setup HTML environment once you are in your project-name folder:
 - a. `npm install` -> Will install all dependencies -> takes 10 to 15 min.
 - b. `localhost:5500/index.html` -> This will load your HTML file and display the output of your web page inside the internal browser.
 - c. `node parser.js` -> to run all test cases. **It is mandatory to run this command before submission of workspace** -> takes 5 to 6 min.
8. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on **"Submit Assessment"** after you are done with code.
9. You need to use **CTRL+Shift+B** - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.
10. If **Ctrl + Shift + B** doesn't work, then manually run the following commands one by one in the terminal:
 - `git add .`
 - `git commit -m "Final commit"`
 - `git push`