

Lab #1:
INTRODUCTION TO GIT AND GITHUB

Topic	Web page development using PHP
Domain of Learning	Psychomotor (P2: Set; P3: Guided Respond; P4: Mechanism)
Learning objective	<ol style="list-style-type: none">1. To evaluate the response in order to solve the problem as required. (P2)2. To evaluate the skill of how the web page is developed whereas using the code/tags correctly. (P3)3. To evaluate the value added of creativity/knowledge/skill in web page development. (P4)
Lab activity objective	To use the combination of HTML tags and PHP scripting properly based on the suitable requirement of a case study.

Instruction: Follow the steps given.

1. Registration of GitHub account:

1.1 Register GitHub account at <https://github.com/>

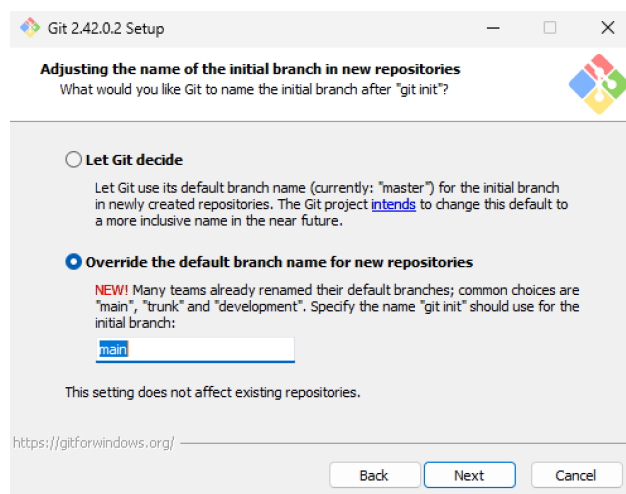
2. Git installation:

2.1 Download Git at [https://github.com/git-for-](https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe)

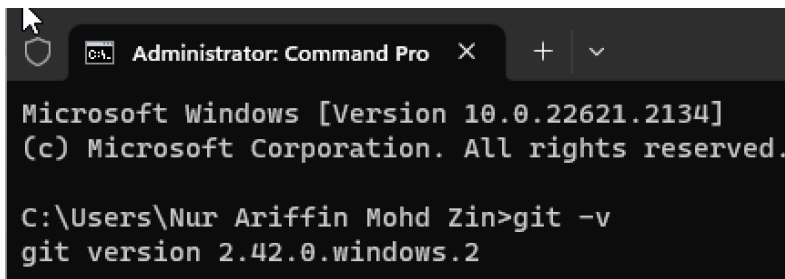
[windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe](https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe)

2.2 For MacOS users, follow the instructions in <https://git-scm.com/download/mac>

2.3 Leave the installation settings as default EXCEPT for the below:



2.4 To verify that Git has been successfully installed, open **Command Prompt** and type `git -v`. The output should be as follows:



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Nur Ariffin Mohd Zin>git -v
git version 2.42.0.windows.2
```

2.5 Next, type the following command in Command Prompt. Replace "Your Full Name" with your actual name.

```
git config --global user.name "Your Full Name"
```

EXAMPLE: `git config --global user.name "John Doe"`

2.6 Then, type the following command to set the email address that will be attached to your commits. Replace "youremail@example.com" with your actual email address. **THE EMAIL ADDRESS MUST BE THE SAME AS THE EMAIL ADDRESS YOU REGISTERED WITH GITHUB IN STEP 1.1**

```
git config --global user.email "youremail@example.com"
```

EXAMPLE: `git config --global user.email "johndoe@example.com"`

2.7 You can verify the `user.name` and `user.email` that has been set up by running the following command.

```
git config --get user.name
```

```
git config --get user.email
```

3. Creating a New Folder and Repository:

3.1 Create a new folder where you want to store your project. Name it as **webdev_lab_1**.

3.2 Open this folder in VS Code: **File -> Open Folder**.

3.3 Once the folder is opened, open the Source Control pane .

3.4 Click on the **Initialize Repository** button. This sets up a new Git repository in your folder.

4. Creating an HTML file:

4.1 In VS Code, go to **File -> New File** or simply click to  button.

4.2 Save this file with the name **index.html** in your project folder.

4.3 Write a basic HTML code as follows:

```
<!DOCTYPE html>
<html>
<head>
  <title>My Simple HTML Page</title>
</head>
<body>
  <h1>Hello, World!</h1>
</body>
</html>
```

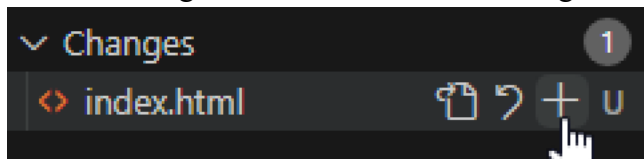
4.4 Make sure to save the file (Ctrl + S).

5. Committing changes to Git:

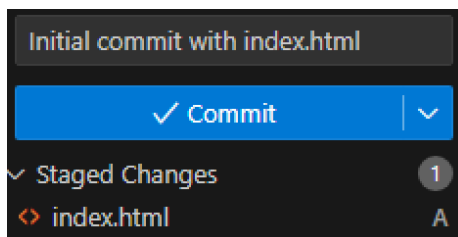
5.1 After saving your HTML file, go back to the Source Control pane.

5.2 You should see your **index.html** listed under **CHANGES**.

5.3 Click the + sign next to the file name to stage the changes.





5.4 Enter a commit message in the text box at the top (e.g., "Initial commit with index.html").



5.5 Lastly, press the checkmark icon  to commit your changes.

6. Pushing to GitHub:

6.1 Navigate to [GitHub](https://github.com) and log in to your account.

6.2 Create a new repository (by clicking  button) with any given name of your choice. You can name with the same name as your folder too (**webdev_lab_1**). **Don't initialize it with a README or .gitignore to keep things simple for this lab.** Make the repository as public. Then click  button.

6.3 Once your repository is created, you will see a page with a link to your repository and some instructions. Copy the link to your repository (it should look something like `https://github.com/ariffinmzin/webdev_lab_1.git`

6.4 Return to VS Code and open a terminal (**Terminal -> New Terminal**).

6.5 Add the remote repository with the following command: `git remote add origin [the URL you just copied]`

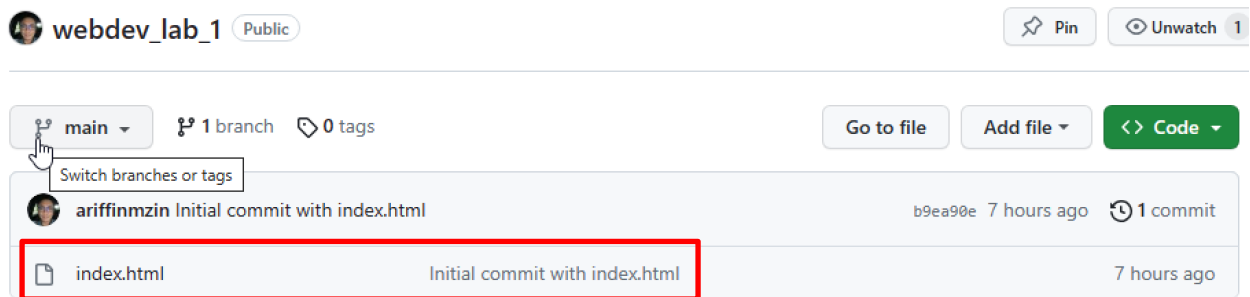
6.6 Push your code to the GitHub repository with the following command: `git push -u origin main`

6.7 A popup window will appear. Choose **Sign in with your browser**.

7. Verify on GitHub:

7.1 Go back to your GitHub repository and refresh your web browser.

7.2 You should now see your **index.html** file in the repository, indicating that your push was successful.



8. Making Changes to the HTML File:

8.1 In VS Code, open your **index.html** file.

8.2 Add a new paragraph below the **<h1>** tag and **save** the changes:

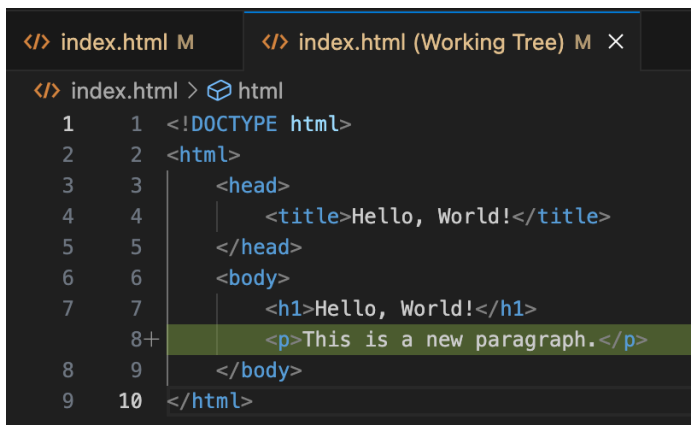
```
<p>This is a new paragraph.</p>
```

9. Viewing the Differences:


9.1 Go to the Source Control pane in VS Code.

9.2 Under **CHANGES**, you'll see **index.html**. Click on it.

9.3 A new tab will open showing the differences between the current file and the previous version. **Added lines will be highlighted in green** and removed lines (if any) in red.



10. Committing the New Changes:

- 10.1 Stage the changes by clicking the + sign next to the **index.html** under **CHANGES**.
- 10.2 Enter a commit message (e.g., "Added a new paragraph").
- 10.3 Press the checkmark icon  to commit your changes.
- 10.4 Do step 6.6 to push the new changes to your GitHub repository.
- 10.5 Verify the changes on GitHub.

11. Enable GitHub Pages:

- 11.1 Navigate to your GitHub repository in your web browser.
- 11.2 Click on the **Settings** tab (usually located towards the top-right).
- 11.3 Scroll down to the **Pages** section.
- 11.4 Under **Source**, make sure to select **Deploy from a branch**.
- 11.5 Under **Branch**, select the **main**. You might also have an option to choose the root or a **/docs** folder, but for this lab, the **root** is fine.
- 11.6 Click **Save**

12. Viewing Your Live Site:

- 12.1 After enabling GitHub Pages, refresh the **Pages** section until you should see a link that says "Your site is live at [link]". Click on that link.

Your site is live at http://ariffinmzin.dev/webdev_lab_1/

Last deployed by  ariffinmzin 2 minutes ago

[Visit site](#)[...](#)

- 12.2 You'll now see your live **index.html** page! It might take a minute or two for your changes to appear the first time, so if your latest edits aren't showing up, give it a moment and refresh.

13. Submission to AUTHOR:

- 13.1 Upload a **text file (.txt)** containing the link generated in **Step 12.1 to AUTHOR (INDIVIDUAL ACTIVITIES – LAB 1) BEFORE 10PM 15/10/2023**. Name your text file as **YOURNAME_YOURMATICNUMBER.txt**.