Weekend Assignment: Learn Git & GitHub

📅 **Deadline:** Before Monday's class

Objective:

By the end of this assignment, you will:

✅ Create a GitHub account
✅ Set up Git on your computer
✅ Create and upload a simple webpage to GitHub
✅ Share your work with the group

Step 1: Create a GitHub Account

💡 **Why?** GitHub is an online tool where developers save and manage their projects. You need an account to store and share your work.

How to do it:

1. Open your web browser and go to https://github.com
2. Click **Sign up**
3. Enter your **email, username, and password**
4. Click **Create account**
5. Follow the instructions to complete your registration

✅ **Your GitHub account is ready!**

🔽 **Example Image:**

Step 2: Create a New Project (Repository) on GitHub

💡 **Why?** A repository is like a folder that stores your project on GitHub.

How to do it:

1. After signing in, click the **+** button in the top-right corner
2. Click **New repository**
3. Type a name for your repository (e.g., `my-first-website`)
4. Select **Public** so you can share it
5. Check **Add a README file**
6. Click **Create repository**

✅ **You now have an online folder for your project!**

🔽 **Example Image:**

Step 3: Download and Install Git

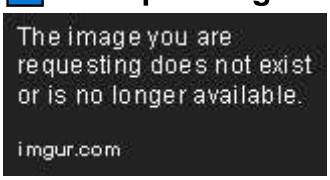
💡 **Why?** Git is a tool that helps you send files from your computer to GitHub.

How to do it:

1. Go to https://git-scm.com/downloads
2. Click **Download** for your computer (Windows/Mac/Linux)
3. Open the downloaded file and **install it** (keep clicking **Next** until it finishes)

✅ **Git is now installed on your computer!**

🔽 **Example Image:**



Step 4: Set Up Git on Your Computer

💡 **Why?** You need to connect Git to your GitHub account before uploading files.

How to do it:

1. Open **Git Bash** (Windows) or **Terminal** (Mac/Linux)
2. Type this command and press **Enter**:

```
git config --global user.name "Your GitHub Username"
```

3. Type this command and press **Enter**:

```
git config --global user.email "Your GitHub Email"
```

(Replace with the email you used to sign up on GitHub)

✅ **Your Git is now connected to GitHub!**

🔽 **Example Image:**

Step 5: Copy (Clone) Your Repository to Your Computer

💡 **Why?** You need to bring the repository to your computer so you can add files to it.

How to do it:

1. Go to **GitHub** → **Your Repository (my-first-website)**
2. Click the green **Code** button
3. Copy the link under **HTTPS**
4. Open **Git Bash**, type this command, and press **Enter**:

```
git clone paste-your-repo-link-here
```

5. A folder named **my-first-website** will be created on your computer

✅ **Your GitHub folder is now on your computer!**

🔽 **Example Image:**

Step 6: Create a Simple Webpage

💡 **Why?** You will create a small website and upload it to GitHub.

How to do it:

1. Open the **my-first-website** folder on your computer
2. Right-click inside the folder → **New File** → Name it **index.html**
3. Open it with **Notepad or VS Code**
4. Copy and paste this inside the file:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My First GitHub Website</title>
</head>
<body>
    <h1>Hello, GitHub!</h1>
    <p>This is my first website hosted on GitHub.</p>
</body>
</html>
```

5. Save the file

✅ **Your webpage is ready!**

🔽 **Example Image:**

Step 7: Upload (Push) Your Webpage to GitHub

💡 **Why?** You need to send your project to GitHub so it is saved online.

How to do it:

1. Open **Git Bash** inside the **my-first-website** folder
2. Type the following commands one by one and press **Enter** after each:

```
git add .
git commit -m "Added my first website"
git push origin main
```

3. Your project is now visible on GitHub! 🎉

✅ **Your webpage is now online!**

🔽 **Example Image:**

Step 8: Share Your Repository Link

💡 **Why?** So I can check your work and give feedback.

How to do it:

1. Go to **GitHub** → **Your Repository**
2. Copy the link at the top (it should look like `https://github.com/your-username/my-first-website`)
3. Paste the link in the group chat

✅ **You have successfully completed the assignment!** 🎉

🔽 **Example Image:**

✅ Bonus Task: Activate GitHub Pages (Make Your Website Live!)

💡 **Why?** This will allow you to share a link where anyone can see your website.

How to do it:

1. Go to **GitHub** → **Your Repository**
2. Click **Settings** → **Pages**
3. Under **Branch**, select **main**, then click **Save**
4. Your website will be live in a few minutes at:

```
https://your-username.github.io/my-first-website/
```

✅ **Your website is now online!** 🚀

🔽 **Example Image:**

Final Reminder:

📌 **Submit before Monday! No excuses!** 🚀