Name: Alasya Zeweldi
Homework assignment #2
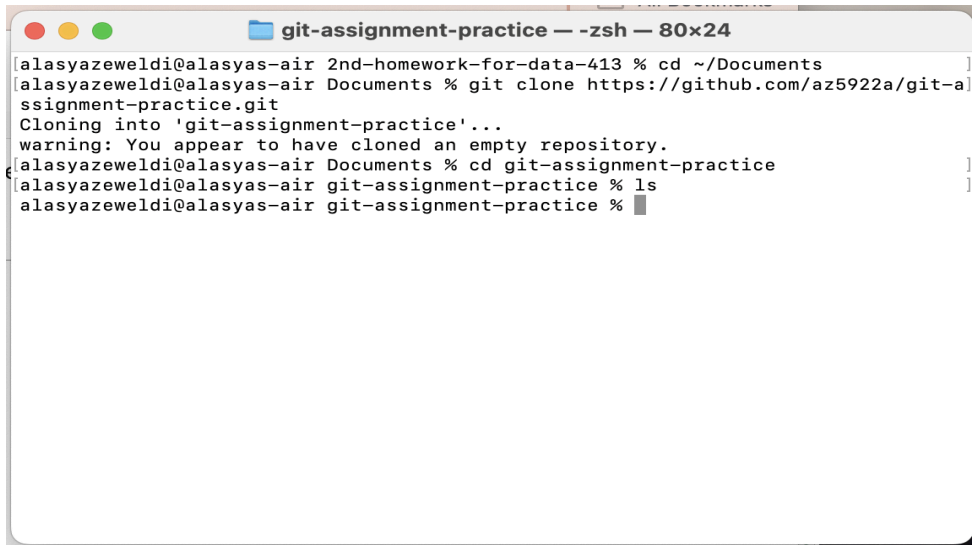**URL: https://github.com/az5922a/git-assignment-practice**

Step one: creating Repository **:**

URL: https://github.com/az5922a/git-assignment-practice
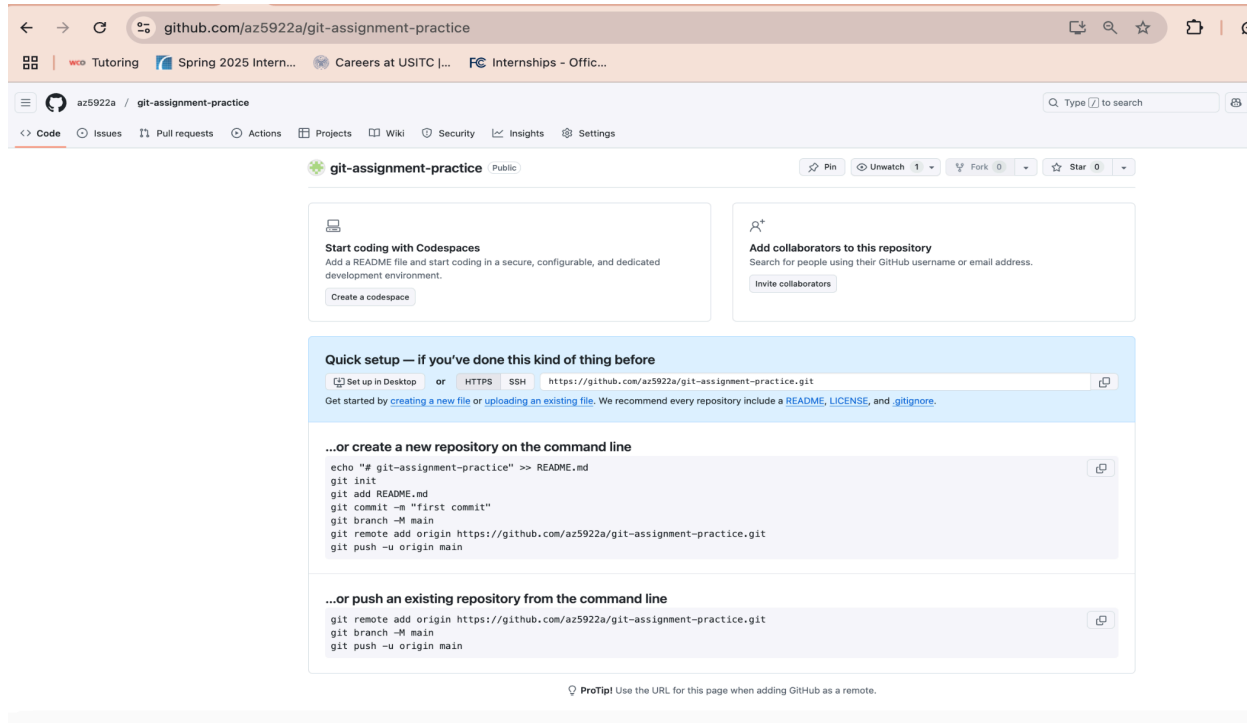
description: To begin, I created a new GitHub repository named git-assignment-practice. I went to GitHub, clicked "New Repository," and gave it a name. I made sure it was set to public and didn't include a .gitignore or README file since I wanted to start fresh. After that, GitHub generated a repository URL, which I copied for later use.
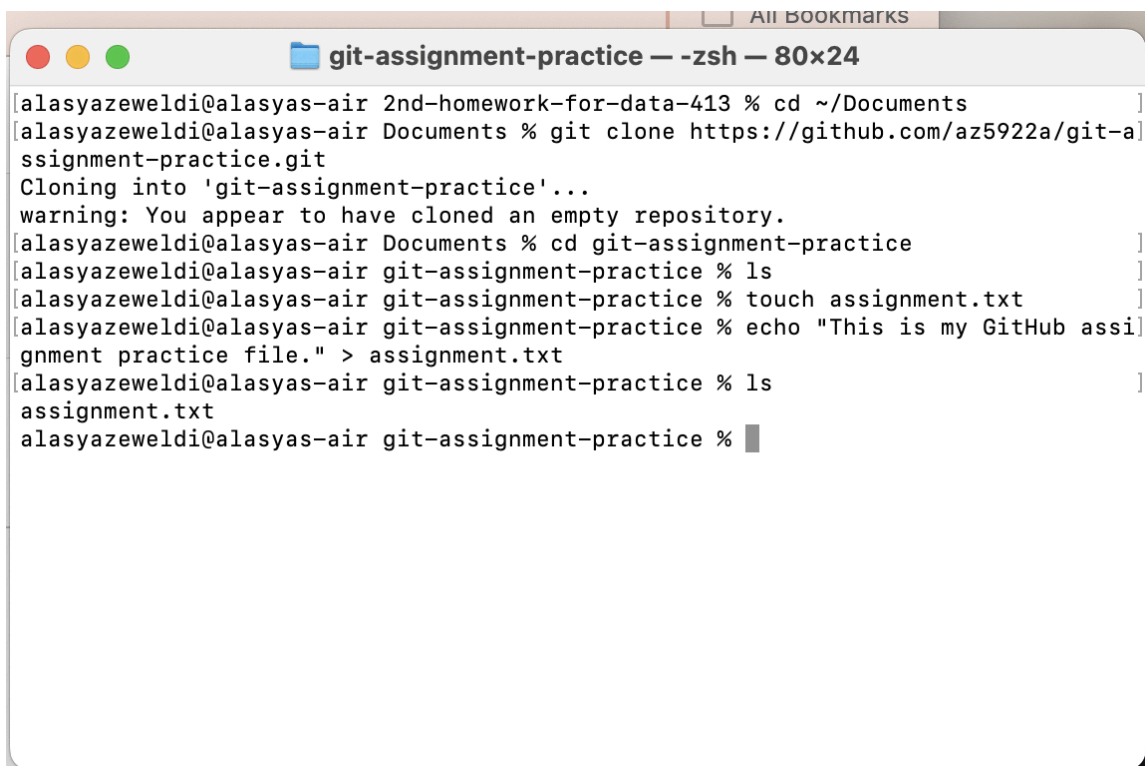
Step 2: Cloning the GitHub Repository to Local Machine

Description: With the repository set up, I moved to my terminal to clone it onto my local machine. I navigated to my Documents directory and ran the git clone command, followed by the repository URL. This created a local copy of the repository so I could work on it from my computer. After cloning, I changed directories into the newly created repository to begin working.
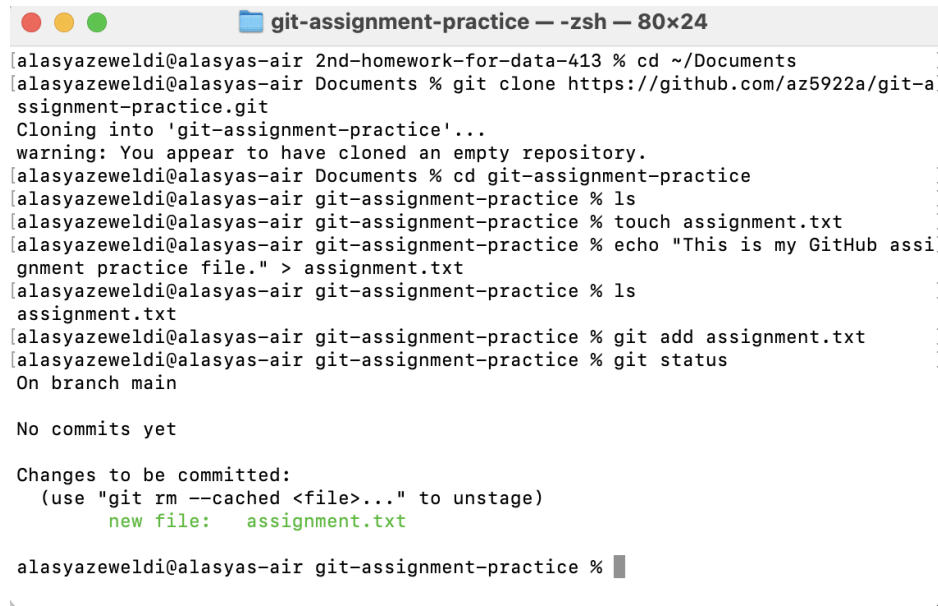
Step 3: Creating and Adding Content to a New File

Description: After cloning the repository, I navigated into it and created a new file called assignment.txt using the touch command. To confirm the file was there, I ran ls, which listed all files in the directory. Next, I used the echo command to write a simple message into assignment.txt. Running ls again showed that the file was successfully created.

Step 4: Staging the File for Commit

```
● ● ●              📁 git-assignment-practice — -zsh — 80×24

[alasyazeweldi@alasyas-air 2nd-homework-for-data-413 % cd ~/Documents
[alasyazeweldi@alasyas-air Documents % git clone https://github.com/az5922a/git-a]
 ssignment-practice.git
 Cloning into 'git-assignment-practice'...
 warning: You appear to have cloned an empty repository.
[alasyazeweldi@alasyas-air Documents % cd git-assignment-practice
[alasyazeweldi@alasyas-air git-assignment-practice % ls
[alasyazeweldi@alasyas-air git-assignment-practice % touch assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % echo "This is my GitHub assi]
 gnment practice file." > assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % ls
 assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % git add assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % git status
 On branch main

 No commits yet

 Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
         new file:   assignment.txt

 alasyazeweldi@alasyas-air git-assignment-practice % ▌
```

Description: Before I could save my changes permanently, I had to stage the file. I did this by running git add assignment.txt, which prepared the file for commit. To check that it was successfully staged, I used git status, which showed that assignment.txt was marked as a new file ready to be committed

Step 5: Saving Changes Locally with a Commit

```
●●●                    📁 git-assignment-practice — -zsh — 96×26
[alasyazeweldi@alasyas-air git-assignment-practice % ls                              ]
[alasyazeweldi@alasyas-air git-assignment-practice % touch assignment.txt            ]
[alasyazeweldi@alasyas-air git-assignment-practice % echo "This is my GitHub assignment practice ]
file." > assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % ls                              ]
 assignment.txt
[alasyazeweldi@alasyas-air git-assignment-practice % git add assignment.txt          ]
[alasyazeweldi@alasyas-air git-assignment-practice % git status                      ]
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   assignment.txt

[alasyazeweldi@alasyas-air git-assignment-practice % git commit -m "Added assignment.txt file     ]
dquote> git log --oneline
[dquote>                                                                             ]
[alasyazeweldi@alasyas-air git-assignment-practice % git commit -m "Added assignment.txt file"    ]
[[main (root-commit) 49bb1ed] Added assignment.txt file                             ]
 1 file changed, 1 insertion(+)
 create mode 100644 assignment.txt
alasyazeweldi@alasyas-air git-assignment-practice % git log --oneline
49bb1ed (HEAD -> main) Added assignment.txt file
[alasyazeweldi@alasyas-air git-assignment-practice % █
```

Description: Now that the file was staged, I saved my changes locally by running git commit -m "Added assignment.txt file." This created a new commit, which I verified by running git log --oneline. The log output showed my commit message along with a unique identifier, confirming that the commit was successfully recorded
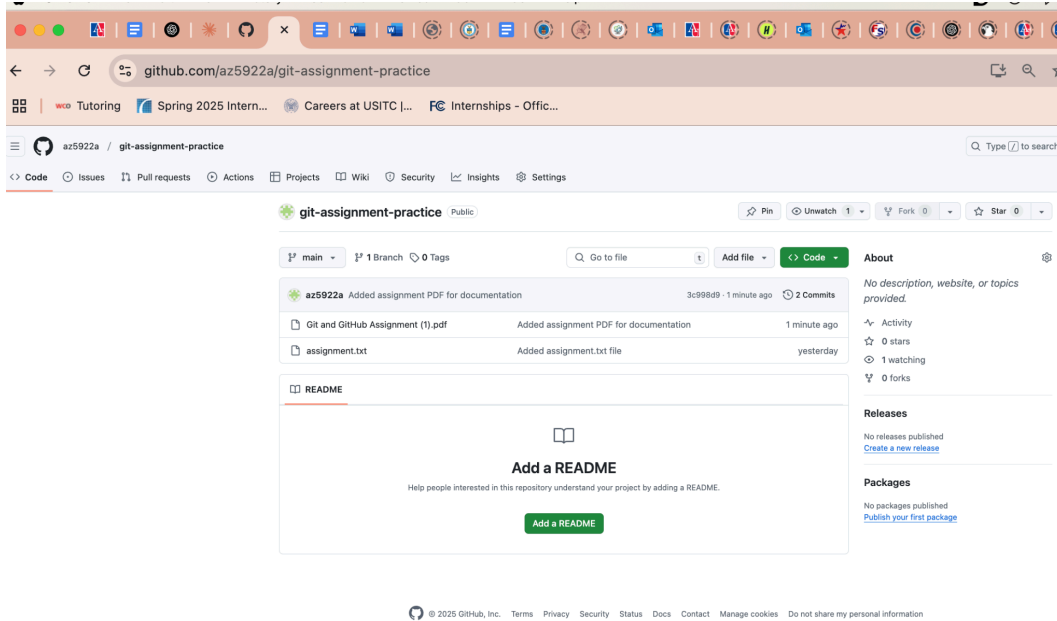
Step 6: Uploading Changes to GitHub

```
●●●                    📁 git-assignment-practice — -zsh — 96×26
dquote> git log --oneline
[dquote>                                                                             ]
[alasyazeweldi@alasyas-air git-assignment-practice % git commit -m "Added assignment.txt file"    ]
[[main (root-commit) 49bb1ed] Added assignment.txt file                             ]
 1 file changed, 1 insertion(+)
 create mode 100644 assignment.txt
alasyazeweldi@alasyas-air git-assignment-practice % git log --oneline
49bb1ed (HEAD -> main) Added assignment.txt file
[alasyazeweldi@alasyas-air git-assignment-practice % git push origin main           ]
Username for 'https://github.com': az5922a
[Password for 'https://az5922a@github.com':                                          ]
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-rep
ositories#cloning-with-https-urls for information on currently recommended modes of authenticati
on.
fatal: Authentication failed for 'https://github.com/az5922a/git-assignment-practice.git/'
[alasyazeweldi@alasyas-air git-assignment-practice % git remote set-url origin https://ghp_cwvu7Q]
P14kD8r6aTEyulij25om15x80gZS65@github.com/az5922a/git-assignment-practice.git
[alasyazeweldi@alasyas-air git-assignment-practice % git push origin main           ]
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 274 bytes | 274.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/az5922a/git-assignment-practice.git
 * [new branch]      main -> main
alasyazeweldi@alasyas-air git-assignment-practice % █
```
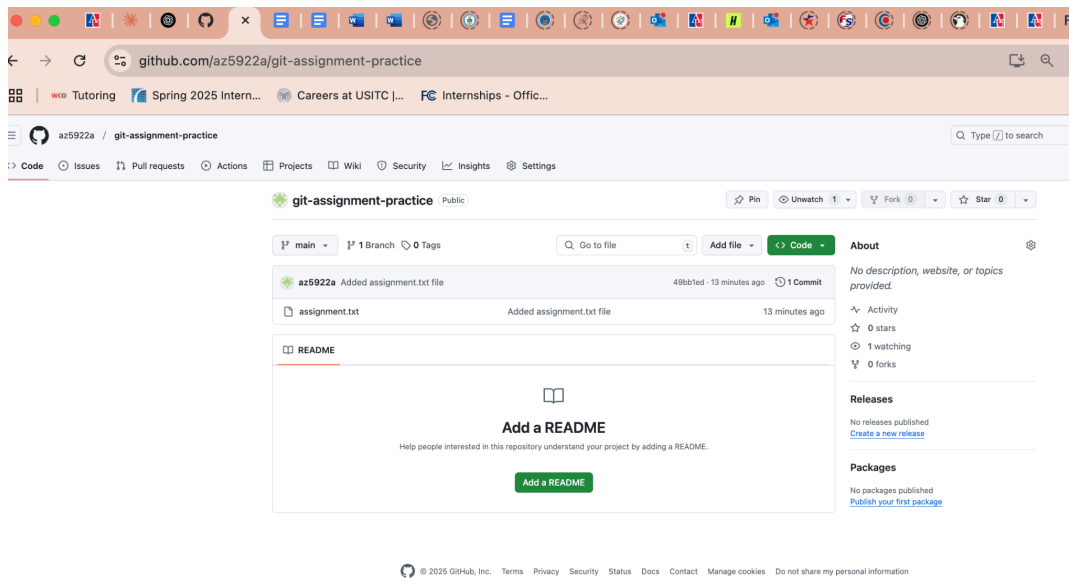
Description: The final step was to push my changes from my local machine back to GitHub. I used git push origin main, but GitHub no longer accepts password authentication, so I had to generate a personal access token. After generating the token, I updated my remote URL with it and retried the push command. Once the push was successful, I checked my GitHub repository and confirmed that assignment.txt was now visible in the repository.

Step 7/Last step: adding the pdf to my git hub

Description: After navigating to my GitHub repository folder in my terminal, I first listed the files inside using ls to confirm that my updated PDF file was there. Initially, I ran git add with the filename, but it didn't match because of spaces in the name. To fix this, I enclosed the filename in quotation marks, which allowed Git to recognize it correctly. Then, I committed the change using git commit -m "Added assignment PDF for documentation" to save the update locally. Finally, I pushed the updated PDF to my GitHub repository using git push origin main, which successfully uploaded the file to GitHub.