**NAME: SANA TARIQ**

**CLASS: BSE 5B**

**REG.NO: 058**

**SUBJECT: CLOUD COMPUTING**

# ASSIGNMENT #1:

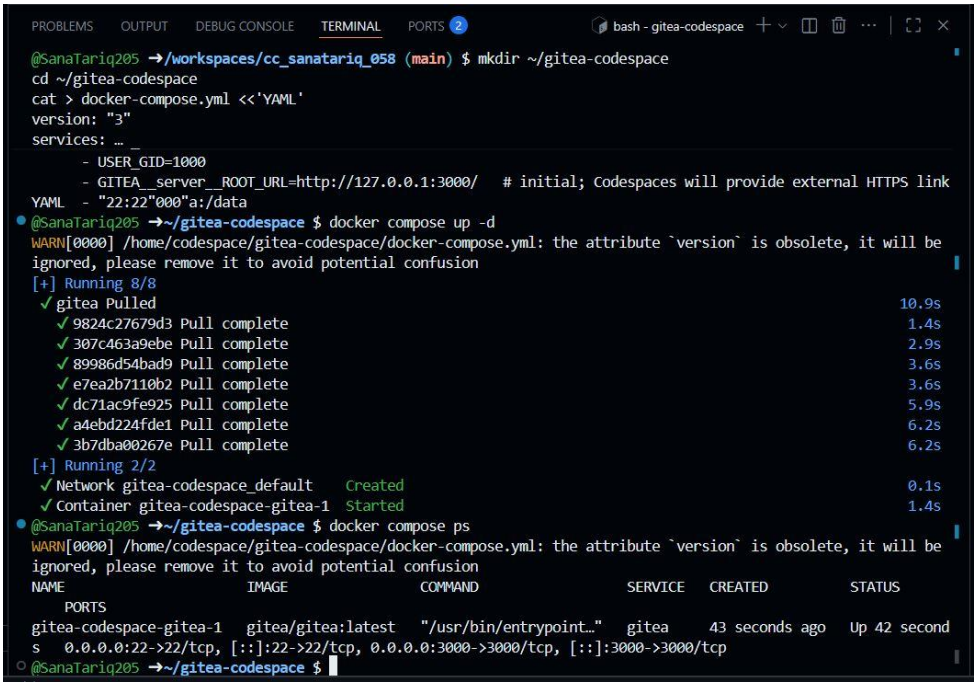
## TASK#01:

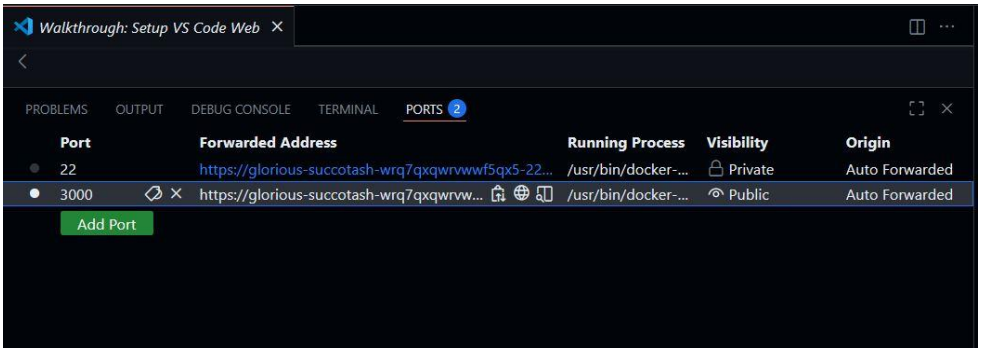
Task 1: Run Gitea in Codespace and Create an Initial Repo

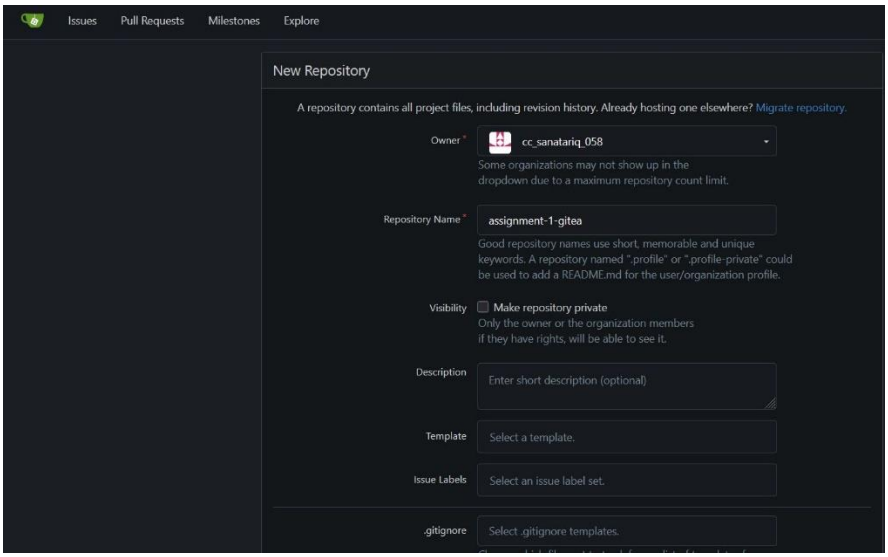
1. Set up Gitea:
   - Run a Gitea server inside your Codespace.
   - Use HTTPS for communication (SSH is not supported in Codespace).

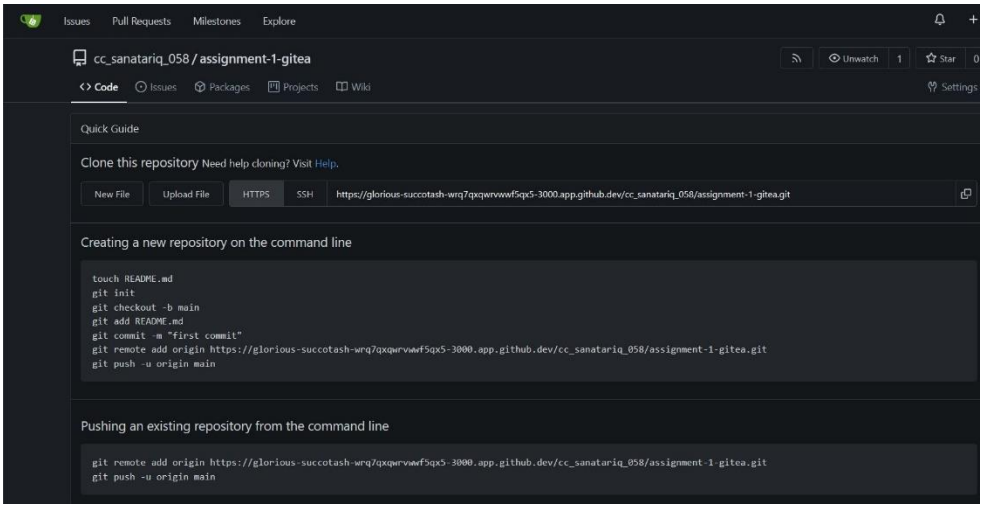
2. Create a Repository:
   - Create a new repository on your Gitea server.
   - Add a README.md file listing each student's name and roll number.

3. Add Remote Repo:
   - Use the following command to add your Gitea repository as a remote:
     git remote add gitea <your_gitea_repo_https_url>
   - Push your initial commit containing the README.md to Gitea.


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2
bash - gitea-codespace
@SanaTariq205 ➜/workspaces/cc_sanatariq_058 (main) $ mkdir ~/gitea-codespace
cd ~/gitea-codespace
cat > docker-compose.yml <<'YAML'
version: "3"
services: … _
- USER_GID=1000
- GITEA__server__ROOT_URL=http://127.0.0.1:3000/ # initial; Codespaces will provide external HTTPS link
YAML - "22:22"000"a:/data
@SanaTariq205 ➜~/gitea-codespace $ docker compose up -d
WARN[0000] /home/codespace/gitea-codespace/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 8/8
✓ gitea Pulled 10.9s
✓ 9824c27679d3 Pull complete 1.4s
✓ 307c463a9ebe Pull complete 2.9s
✓ 89986d54bad9 Pull complete 3.6s
✓ e7ea2b7110b2 Pull complete 3.6s
✓ dc71ac9fe925 Pull complete 5.9s
✓ a4ebd224fde1 Pull complete 6.2s
✓ 3b7dba00267e Pull complete 6.2s
[+] Running 2/2
✓ Network gitea-codespace_default Created 0.1s
✓ Container gitea-codespace-gitea-1 Started 1.4s
@SanaTariq205 ➜~/gitea-codespace $ docker compose ps
WARN[0000] /home/codespace/gitea-codespace/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
NAME IMAGE COMMAND SERVICE CREATED STATUS PORTS
gitea-codespace-gitea-1 gitea/gitea:latest "/usr/bin/entrypoint…" gitea 43 seconds ago Up 42 seconds 0.0.0.0:22->22/tcp, [::]:22->22/tcp, 0.0.0.0:3000->3000/tcp, [::]:3000->3000/tcp
@SanaTariq205 ➜~/gitea-codespace $


Walkthrough: Setup VS Code Web
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2
Port
Forwarded Address
Running Process
Visibility
Origin
22
https://glorious-succotash-wrq7qxqwrvwwf5qx5-22...
/usr/bin/docker-...
Private
Auto Forwarded
3000
https://glorious-succotash-wrq7qxqwrvw...
/usr/bin/docker-...
Public
Auto Forwarded
Add Port


Issues
Pull Requests
Milestones
Explore
New Repository
A repository contains all project files, including revision history. Already hosting one elsewhere? Migrate repository.
Owner *
cc_sanatariq_058
Some organizations may not show up in the dropdown due to a maximum repository count limit.
Repository Name *
assignment-1-gitea
Good repository names use short, memorable and unique keywords. A repository named ".profile" or ".profile-private" could be used to add a README.md for the user/organization profile.
Visibility
Make repository private
Only the owner or the organization members if they have rights, will be able to see it.
Description
Enter short description (optional)
Template
Select a template.
Issue Labels
Select an issue label set.
.gitignore
Select .gitignore templates.




# TASK#02:

Task 2: Mirror README.md from Gitea to GitHub

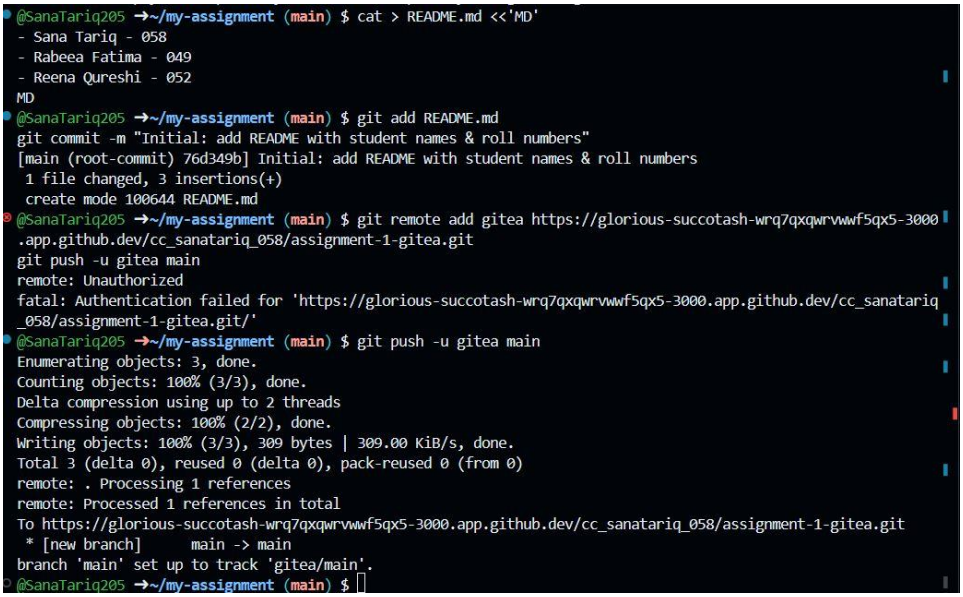
1. Continue Working with Your Existing Repository:
   - You will use the same repository that you created and pushed to your Gitea server in Task 1.

2. Create GitHub Repository:
   - Create a new GitHub repository named assignment 1.

3. Add GitHub as a Second Remote:
   - Add your GitHub repository as a remote to your local repository:
     git remote add github <your_github_repo_https_url>

4. Push the README.md File to GitHub:
   - Push the contents (including the README.md) from your local repository to GitHub.

5. Verify Remotes:
   - Run git remote -v and ensure both remotes (gitea and github) are listed.




# TASK#03:

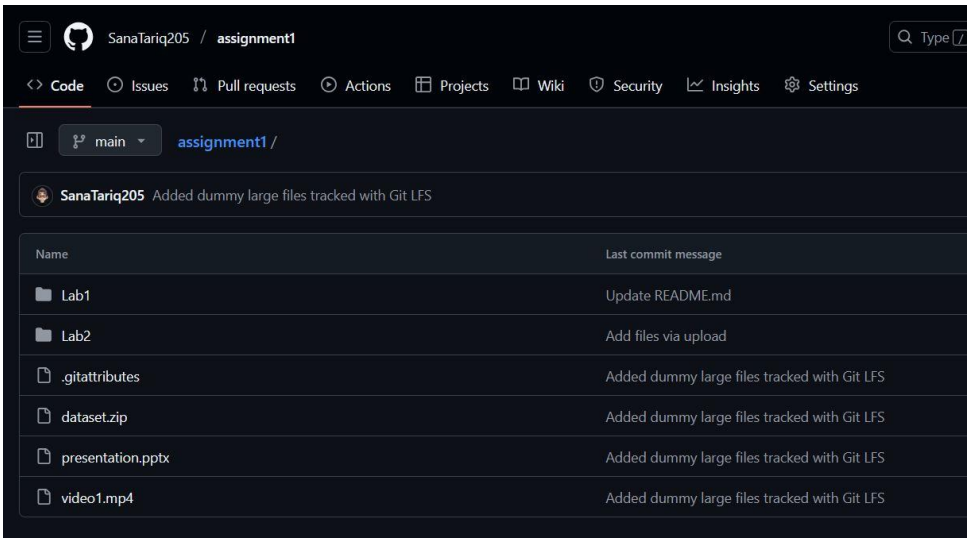
Task 3: Use Git LFS for Large Files

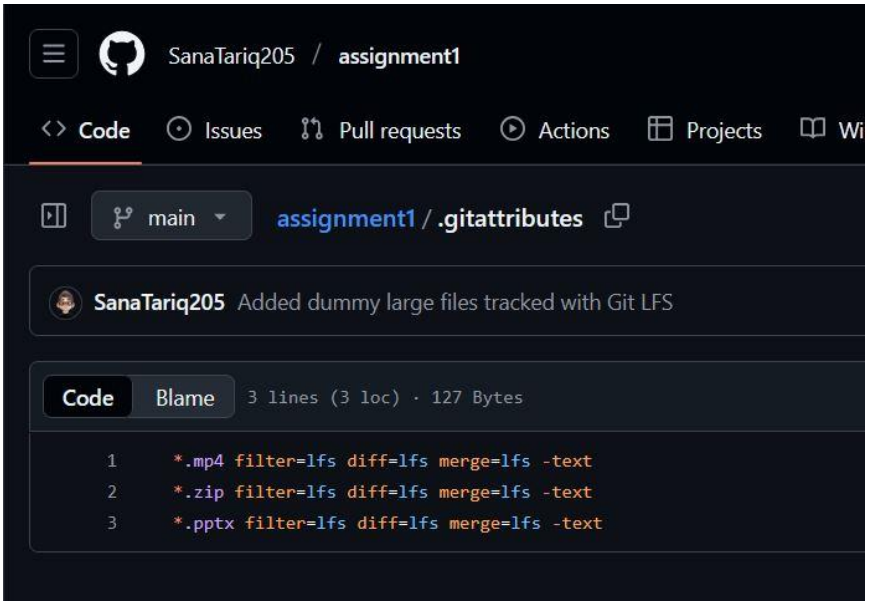
1. Install Git LFS:
   - Set up Git LFS in your local repository.

2. Add Large Files:
   - Add three files larger than 100 MB each to your repository.
   - Track them using Git LFS:
     git lfs track "*.ext"
   - Replace .ext with the appropriate file extension.

3. Reference in Assignment Repo:
   - Commit and push these large files to your GitHub assignment 1 repo.
   - Ensure the files are referenced correctly in your repository history.

```
@SanaTariq205 ➜/workspaces/cc_sanatariq_058 (main) $ git lfs install
Updated Git hooks.
Git LFS initialized.
@SanaTariq205 ➜/workspaces/cc_sanatariq_058 (main) $ fallocate -l 150M video1.mp4
fallocate -l 120M dataset.zip
fallocate -l 130M presentation.pptx
@SanaTariq205 ➜/workspaces/cc_sanatariq_058 (main) $ ls -lh
total 401M
drwxrwxrwx+ 2 codespace root      4.0K Oct 13 13:14 Lab1
drwxrwxrwx+ 2 codespace root      4.0K Oct 13 13:14 Lab2
-rw-rw-rw-  1 codespace codespace 120M Oct 15 14:51 dataset.zip
-rw-rw-rw-  1 codespace codespace 130M Oct 15 14:51 presentation.pptx
-rw-rw-rw-  1 codespace codespace 150M Oct 15 14:51 video1.mp4
@SanaTariq205 ➜/workspaces/cc_sanatariq_058 (main) $ git lfs track "*.mp4"
git lfs track "*.zip"
git lfs track "*.pptx"
git add .gitattributes
git add video1.mp4 dataset.zip presentation.pptx
git commit -m "Added dummy large files tracked with Git LFS"
git push github main
Tracking "*.mp4"
Tracking "*.zip"
Tracking "*.pptx"
[main 779fe2f] Added dummy large files tracked with Git LFS
 4 files changed, 12 insertions(+)
 create mode 100644 .gitattributes
 create mode 100644 dataset.zip
 create mode 100644 presentation.pptx
 create mode 100644 video1.mp4
```





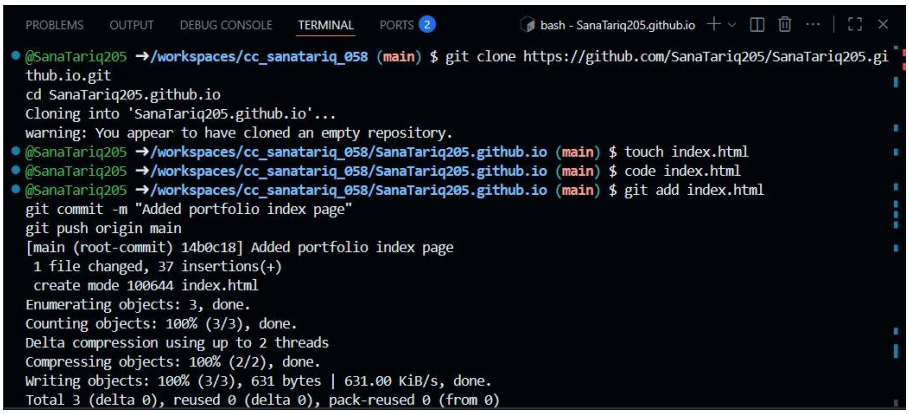

# TASK#04:

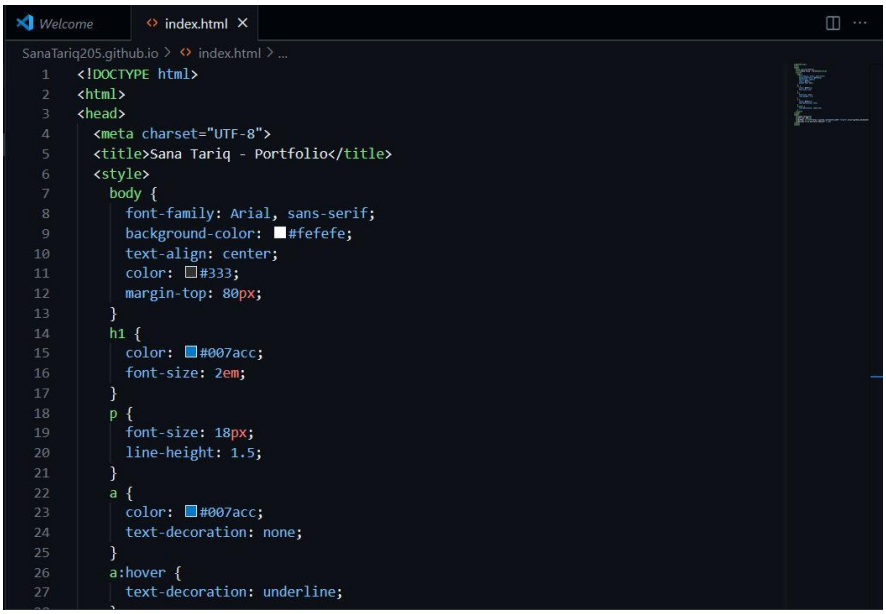
Task 4: Create a Portfolio/CV with GitHub Pages

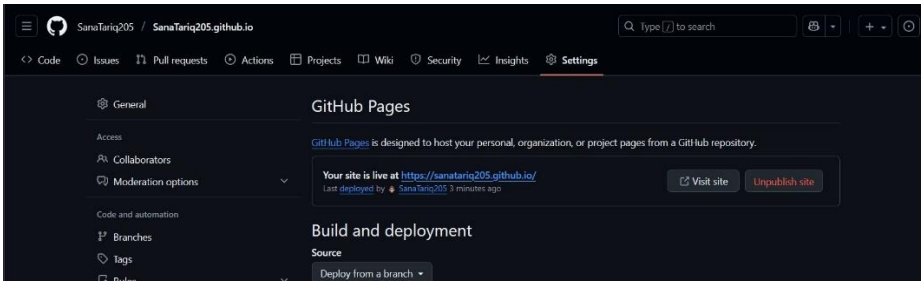
1. Create a new repository for GitHub Pages:
   - Create a new repository named <your-username>.github.io.
   - Replace <your-username> with your actual GitHub username (e.g., johnsmith.github.io).

2. Design Your Portfolio/CV:
   - Create your portfolio or CV in HTML/CSS (or use a static site generator).

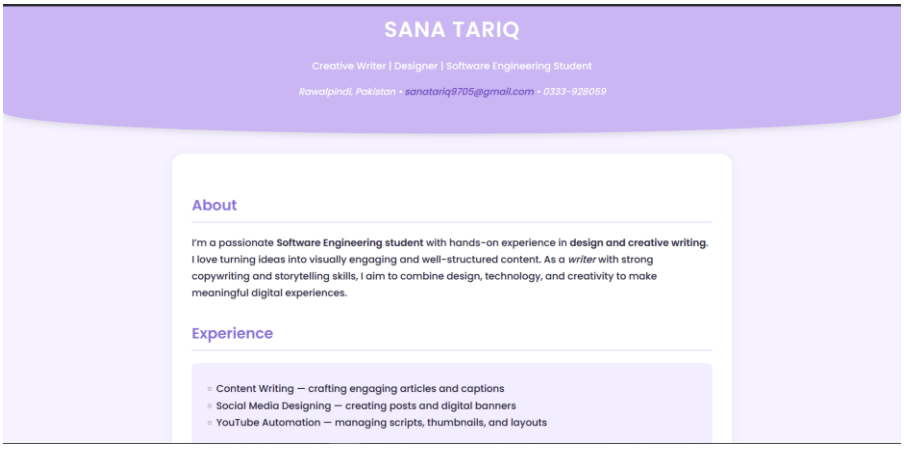
3. Publish with GitHub Pages:
   - Push your portfolio/CV files to the <your-username>.github.io repository.
   - Enable GitHub Pages in your repository settings if not automatically enabled.
   - Publish your site and share the link.






**LINK:**

https://github.com/SanaTariq205/assignment1

https://sanatariq205.github.io/