CLOUD COMPUTING ASSIGNMENT: 01



Submitted To:

Engr. Waqas Salim

Submitted By:

Komal Kashif

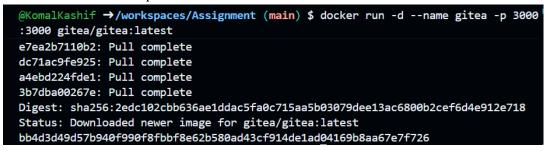
BSE V-A

2023-BSE-031

TASK 1: RUN GITEA IN CODESPACE AND CREATE AN INITIAL REPO

1. Set up Gitea:

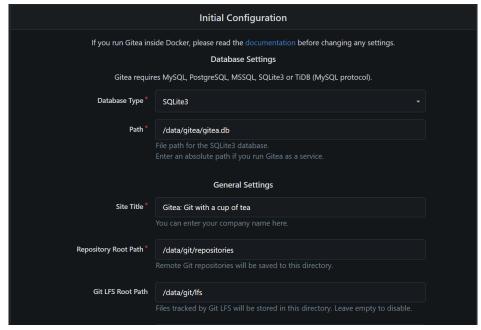
Run Gitea inside Codespace:



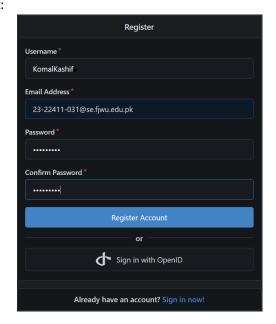
Forward the port to access Gitea:

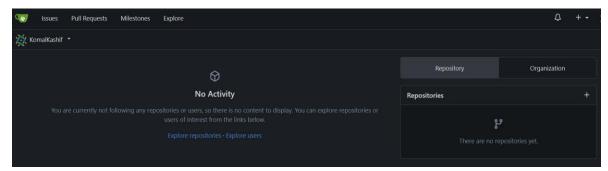


Set up Gitea in the browser:

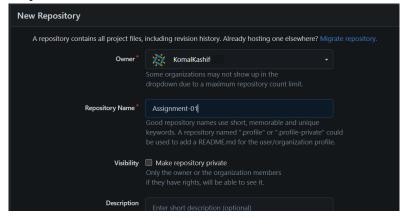


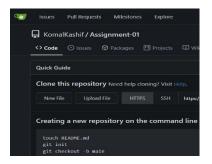
Create an admin account:



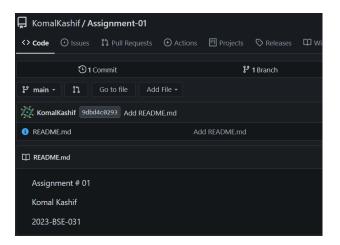


2. Create a Repository:



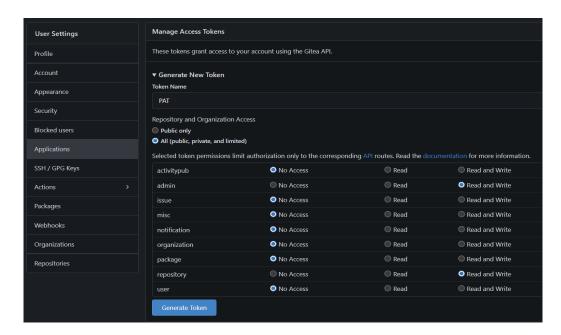


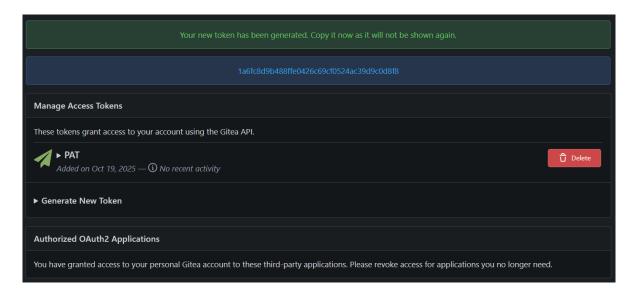
Now, add a **README.md** listing student names & roll numbers.



3. Generate a Personal Access Token (PAT) in Gitea

Open Settings → Applications to create token:





Now, open Git Bash:

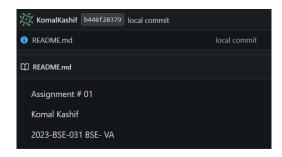
```
MINGW64 ~/Downloads/CC_KomalKashif_031 (master)
 git branch -M main
 pell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git pull gitea main
warning: auto-detection of host provider took too long (>2000ms) warning: see https://aka.ms/gcm/autodetect for more information. From https://gitea.com/KomalKashif/Assignment-01
                        main
                                     -> FETCH_HEAD
 pell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ 1s
README.md
 pell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ cat README.md
Assignment # 01
Komal Kashif
2023-BSE-031
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ echo "
            BSE- VA" >> README.md
 pell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ cat README.md
Assignment # 01
Komal Kashif
2023-BSE-031
   BSE- VA
```

```
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git commit -m "local commit"
[main b448f28] local commit
1 file changed, 1 insertion(+)

Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git push -u gitea main
warning: auto-detection of host provider took too long (>2000ms)
warning: see https://aka.ms/gcm/autodetect for more information.
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/2), done.
Writing objects: 100% (3/3), 303 bytes | 151.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: . Processed 1 references in total
To https://gitea.com/KomalKashif/Assignment-01.git
   9dbd4cO..b448f28 main -> main
branch 'main' set up to track 'gitea/main'.
```

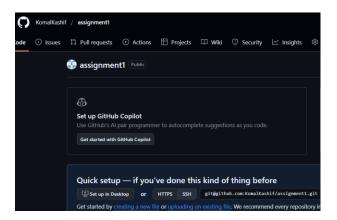
Go back to Gitea:



So the change we made locally also appeared here in the repository.

TASK 2: MIRROR README.MD FROM GITEA TO GITHUB

- 1. Continue Working with Your Existing Repository
- 2. Create Github repository named assignment1

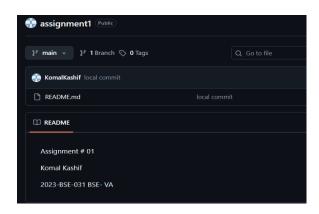


- 3. Add GitHub as a Second Remote.
- 4. Push the README.md File to GitHub.
- 5. Verify Remotes: Run git remote -v and ensure both remotes (gitea and github) are listed.

```
Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git remote add github https://github.com/KomalKashif_assignment1.git

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git push github main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 541 bytes | 108.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/KomalKashif/assignment1.git
* [new branch] main -> main

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git remote -v
gitea https://KomalKashif:la6fc8d9b488ffe0426c69cf0524ac39d9c0d8f8@gitea.com/K
omalKashif/Assignment-01.git (fetch)
github https://github.com/KomalKashif/assignment1.git (fetch)
github https://github.com/KomalKashif/assignment1.git (push)
```



TASK 3: USE GIT LFS FOR LARGE FILES

1. Install Git LFS:

Set up Git LFS in your local repository.

```
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.

Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git lfs version
git-lfs/3.7.0 (GitHub; windows amd64; go 1.24.4; git 92dddf56)
```

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.

```
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)

$ # x (*105 MB)
base_text="CYBERSECURITY INCIDENT REPORT: Summary of attacks, alerts, and respon
se strategies."
yes "$base_text" | head -c 110100480 > x.txt

# y (*110 MB)
base_text="DIGITAL FORENSICS ANALYSIS: Evidence collection, timeline reconstruct
ion, and log correlation."
yes "$base_text" | head -c 115343360 > y.txt

# z (*115 MB)
base_text="NETWORK MONITORING RECORDS: Firewall logs, connection attempts, and a
nomaly detection results."
yes "$base_text" | head -c 120586240 > z.txt

Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git ifs track "*.txt"

Tracking "*.txt"

Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git add .gitattributes
```

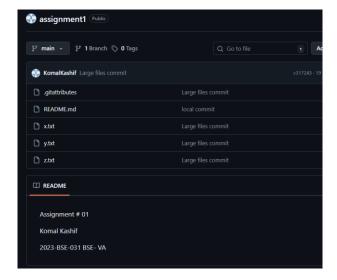
3. Reference in Assignment Repo:

Commit and push these large files to your GitHub assignment 1 repo.

```
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git add x.txt y.txt z.txt

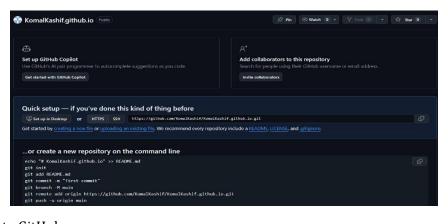
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git commit -m "Large files commit"
[main b615239] Large files commit
4 files changed, 10 insertions(+)
create mode 100644 y.txt
create mode 100644 y.txt
create mode 100644 y.txt
create mode 100644 y.txt
Dell@DESKTOP-OPCO1NF MINGW64 ~/Downloads/CC_KomalKashif_031 (main)
$ git commit -m "Large files commit"
```

Ensure the files are referenced correctly in your repository history.



TASK 4: CREATE A PORTFOLIO/CV WITH GITHUB PAGES

Go to GitHub and create a new repository named <your-username>.github.io. Make sure the repository is public.



Push the Files to GitHub

```
Dell@DESKTOP-OPCOINF MINGW64 ~
$ cd "C:\Users\Dell\Downloads\Lab 3\CV"

Dell@DESKTOP-OPCOINF MINGW64 ~\Downloads\Lab 3\CV
$ git init
Initialized empty Git repository in C:\Users\Dell\Downloads\Lab 3\CV\.git\/

Dell@DESKTOP-OPCOINF MINGW64 ~\Downloads\Lab 3\CV\ (master)
$ git remote add origin git@github.com:KomalKashif\KomalKashif.i

Dell@DESKTOP-OPCOINF MINGW64 ~\Downloads\Lab 3\CV\ (master)
$ git remote add origin git@github.com:KomalKashif\KomalKashif.github.io.git
```

```
Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV"

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV

§ git init
Initialized empty Git repository in C:/Users/Dell/Downloads/Lab 3/CV.git/

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV (master)

§ git remote add origin https://github.com/KomalKashif/KomalKashif.github.io.git

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV (master)

§ git add .

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV (master)

§ git commit -m "Add portfolio site Github Pages"

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Dell@DESKTOP-OPCOINF MINGW64 ~/Downloads/Lab 3/CV (master)

§ git push -u origin master

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 4 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), fone.

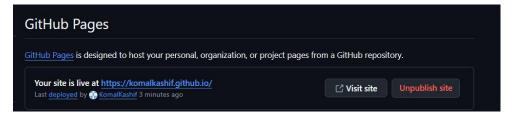
Writing objects: 100% (4/4), fone.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/KomalKashif/KomalKashif.github.io.git

* [new branch] master' set up to track 'origin/master'.
```

Go to your repository on GitHub. Click Settings > Pages. Confirm that your site is published and see the link to your live site (e.g., https://your-username.github.io).



Visit Your Live Site

