CLOUD COMPUTING

BSE (V-B)

Submitted By:

Musfira Farooq

Roll No:

2023-BSE-045

ASSIGNMENT 01

Git, Gitea, GitHub, LFS, and GitHub Pages

TASK 01

Run Gitea in Codespace and Create an Initial Repo

- **Connecting to port:**

- **Port 3000 web address:**

- **Installing Gitea:**

- **Gitea Running in Codespace:**
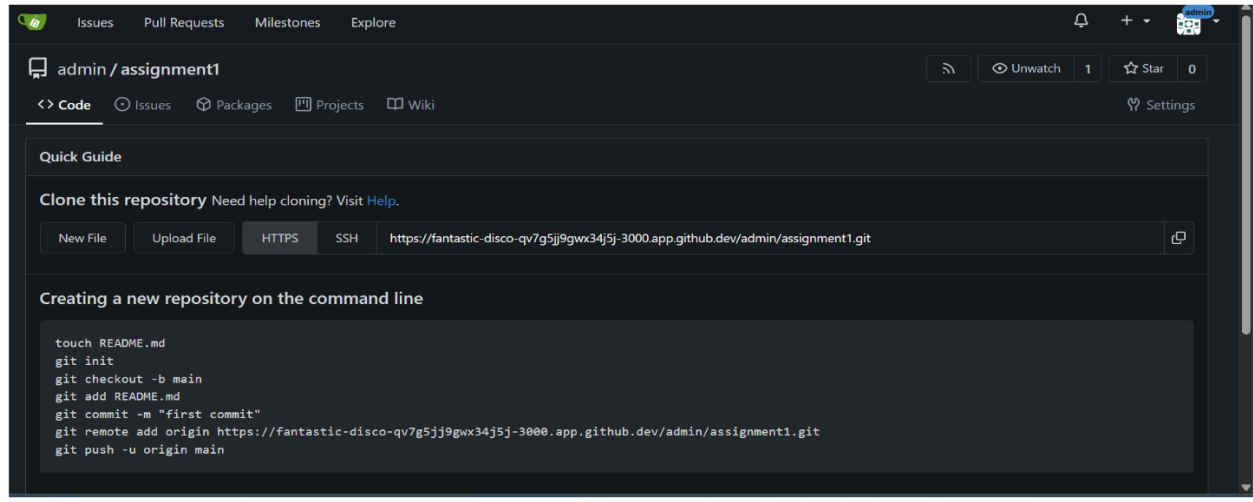
- **Gitea Repository with README.md:**
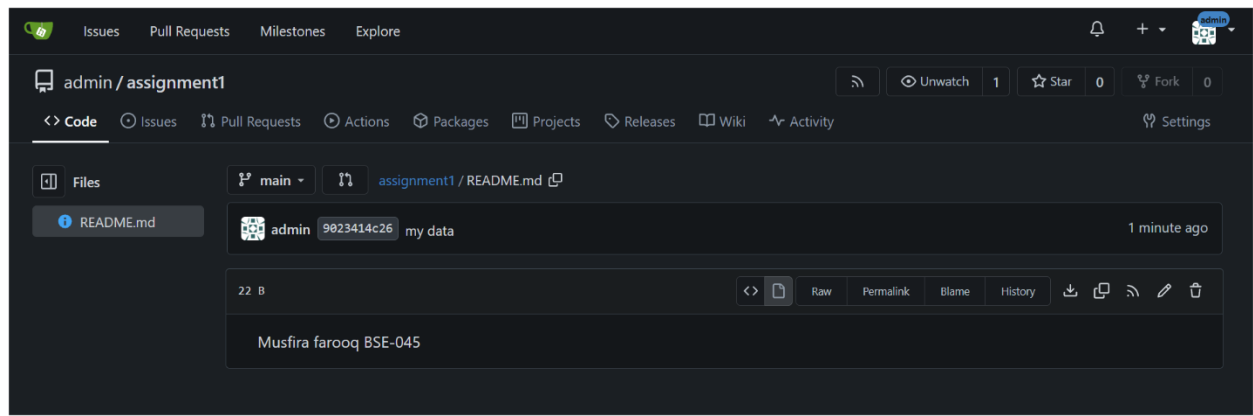
- **Git Remote Command (Gitea Remote Added)**
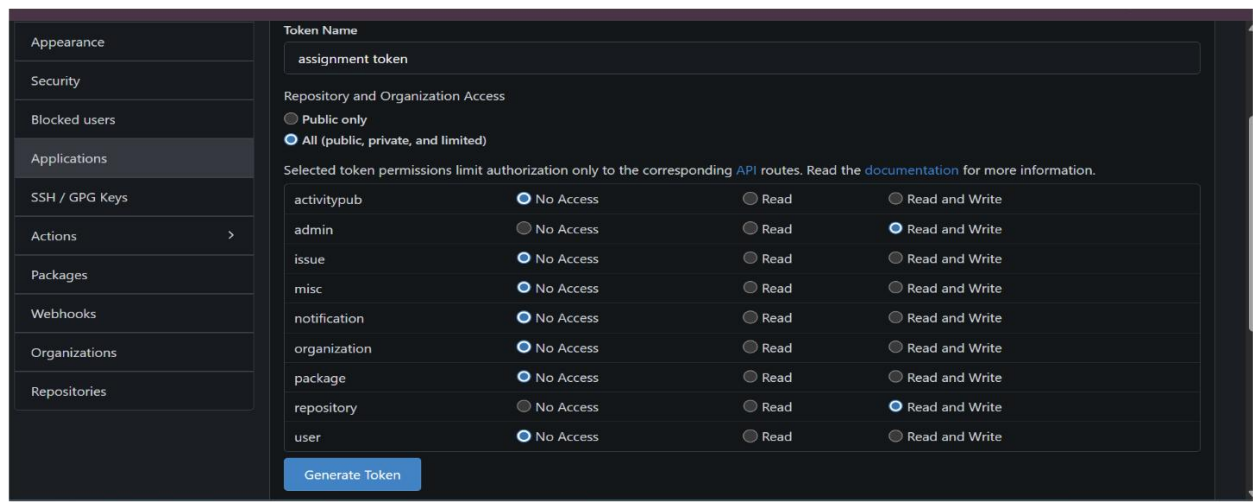
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1 Commit   1 Branch   0 Tags

Search code...

main   Go to file   Add File   <> Code

admin 9023414c26 my data

README.md   my data

README.md

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Clone

HTTPS SSH Tea CLI

https://fantastic-disco-qv7g5jj9gwx:

Open with VS Code
Open with VSCodium
Open with Intellij IDEA

Download ZIP
Download TAR.GZ
Download BUNDLE

Description
No description provided

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Readme

23 KiB

Powered by Gitea Version: 1.24.6 Page: 24ms Template: 7ms   English   Licenses   API

29°C Sunny   Search   ENG 5:34 PM 10/19/2025

```
Musfi@DESKTOP-QVT1R80 MINGW64 ~
$ cd "C:/Users/Musfi/Downloads/assignment"

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git init
Initialized empty Git repository in C:/Users/Musfi/Downloads/assignment/.git/

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (master)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=<remote>/<branch> master

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (master)
$ git remote add gitea https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fa
ntastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (master)
$ git pull
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 214 bytes | 15.00 KiB/s, done.
From https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1
 * [new branch]      main       -> gitea/main
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=gitea/<branch> master

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (master)
$ git branch -M main
```

```
Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (master)
$ git branch -M main

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git pull gitea main
From https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1
 * branch            main       -> FETCH_HEAD

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ ls
README.md

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ cat README.md
Musfira farooq
BSE-045
Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ echo "section V-B" >> README.md

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ cat README.md
Musfira farooq
BSE-045section V-B

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git commit -m "Local comit"
[main ffe20c1] Local comit
 1 file changed, 1 insertion(+), 1 deletion(-)

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git push -u gitea main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 297 bytes | 148.00 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://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git
   9023414..ffe20c1  main -> main
branch 'main' set up to track 'gitea/main'.

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ |
```

Issues   Pull Requests   Milestones   Explore

admin / assignment1

⬡ Unwatch 1   ☆ S

<> Code   ⊙ Issues   ⇅ Pull Requests   ⊙ Actions   ⬡ Packages   ▥ Projects   ⬡ Releases   📖 Wiki   ⌁ Activity

| ⟳ 2 Commits | ⑂ 1 Branch | ⬡ 0 Tags |

⑂ main ▾   ⇅   Go to file   Add File ▾   <> Code ▾

Description

No description

Manage Topics

📖 Readme

⬡ 24 KiB

| ⬡ Musfira-Farooq `ffe20c1b22` Local comit | 2 minutes ago |
| ⓘ README.md Local comit | 2 minutes ago |

📖 README.md   ✎

Musfira farooq BSE-045section V-B

TASK 02

Mirror README.md from Gitea to GitHub

- **GitHub Repository (assignment-1) with readme.md:**
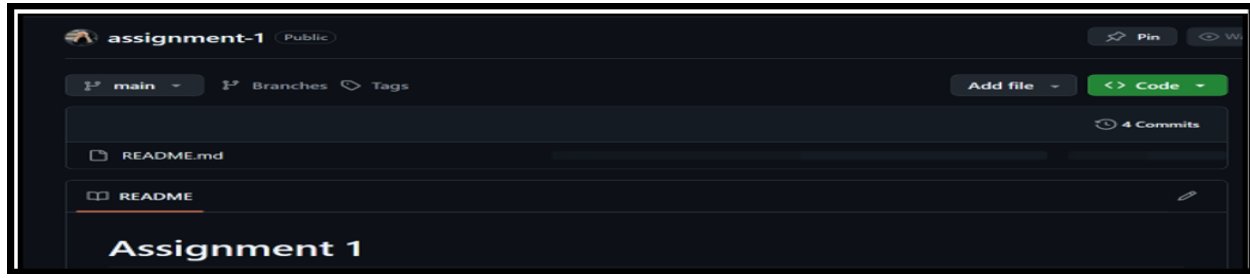
- **Git Remote Command (Both Remotes):**

```
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git remote set-url github https://github.com/Musfira-Farooq/assignment-1.git

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git remote -v
gitea   https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fantastic-disco-q
v7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git (fetch)
gitea   https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fantastic-disco-q
v7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git (push)
github  https://github.com/Musfira-Farooq/assignment-1.git (fetch)
github  https://github.com/Musfira-Farooq/assignment-1.git (push)

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git add README.md

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git commit -m "Add README.md"
On branch main
Your branch is up to date with 'gitea/main'.

nothing to commit, working tree clean

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git push github main
Everything up-to-date

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$
```
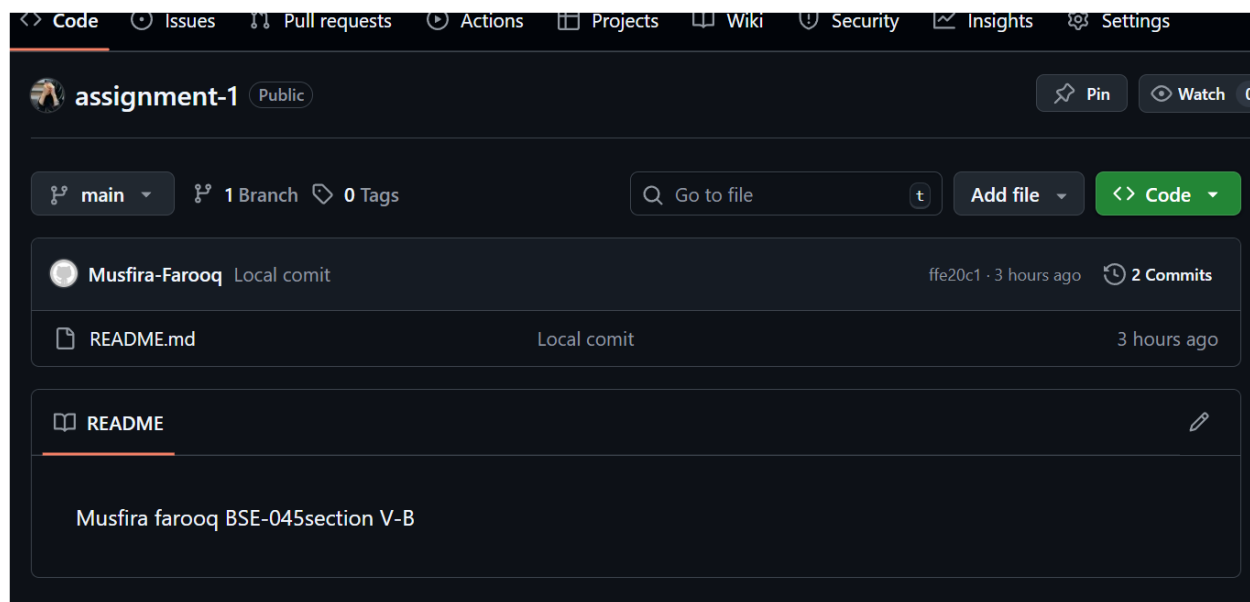
TASK 03

Use Git LFS for Large Files

- **Git LFS Installation:**

```
Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git lfs version
git-lfs/3.7.0 (GitHub; windows amd64; go 1.24.4; git 92dddf56)

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ # Create 3 large test files (around 120 MB each)
dd if=/dev/zero of=largefile1.zip bs=1M count=120
dd if=/dev/zero of=largefile2.zip bs=1M count=120
dd if=/dev/zero of=largefile3.zip bs=1M count=120
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.104097 s, 1.2 GB/s
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.110975 s, 1.1 GB/s
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.215029 s, 585 MB/s

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git lfs track "*.zip"
Tracking "*.zip"
```

```
Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ cat .gitattributes
*.zip filter=lfs diff=lfs merge=lfs -text

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git add .gitattributes
git add largefile1.zip largefile2.zip largefile3.zip
git commit -m "Add large files tracked by Git LFS"
[main 66d8523] Add large files tracked by Git LFS
 4 files changed, 10 insertions(+)
 create mode 100644 .gitattributes
 create mode 100644 largefile1.zip
 create mode 100644 largefile2.zip
 create mode 100644 largefile3.zip

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git push github main
Uploading LFS objects: 100% (1/1), 240 MB | 631 KB/s, done.
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 6 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 525 bytes | 175.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Musfira-Farooq/assignment-1.git
   ffe20c1..66d8523  main -> main

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$

Musfi@DESKTOP-QVT1R8O MINGW64 ~/Downloads/assignment (main)
$ git lfs ls-files
5c4fb902a2 * largefile1.zip
5c4fb902a2 * largefile2.zip
5c4fb902a2 * largefile3.zip
```
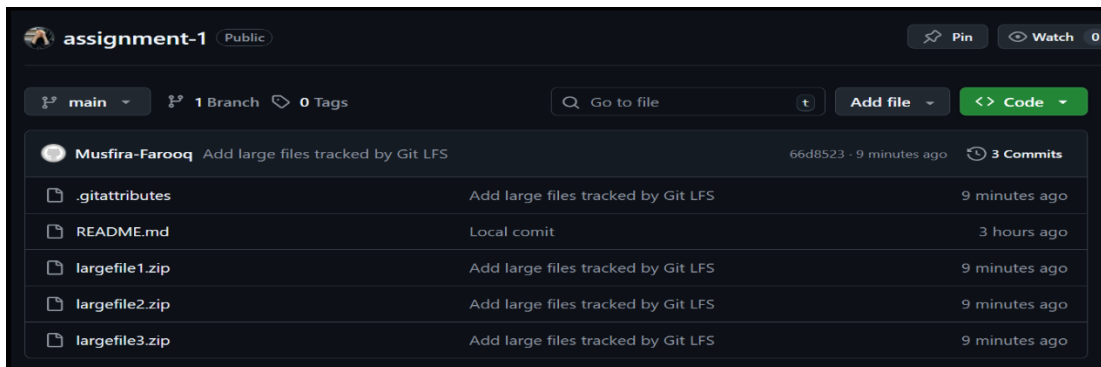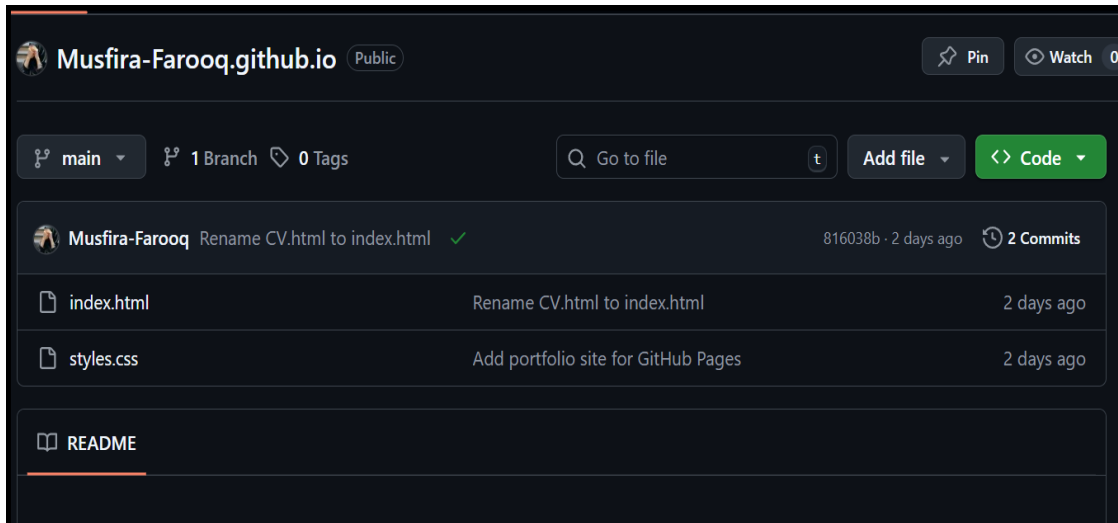
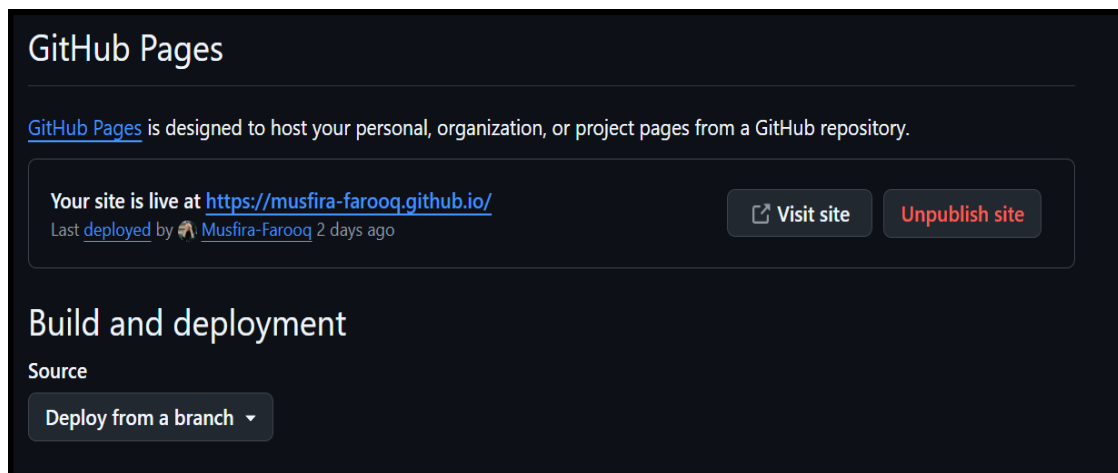- **GitHub Repository Showing Large Files:**

TASK 04

Create a Portfolio/CV with GitHub Pages

- **GitHub Pages Repository:**

- **GitHub Pages Settings:**

- **Live CV Website:**

https://musfira-farooq.github.io/

Musfira Farooq

Roll No: 2023-BSE-045

Department of Software Engineering

Fatimah Jinnah Women University, Pakistan

23-22411-045@se.fjwu.edu.pk | 📞 0306-814**** | LinkedIn

Career Objective

Motivated Software Engineering student passionate about AI and Cloud Computing, seeking opportunities to apply my skills in real-world projects and enhance my professional development through innovative learning.

Technical Skills

- Python
- C++

Education

- **BS Software Engineering** — Fatimah Jinnah Women University (2023–Present)
- **Intermediate (ICS)** — Harvard College of Commerce & Sciences (2020–2022)
- **Matriculation (Computer Science)** — Beacon Light School (2020)

Certifications

- Badge x2 in UX Design – Google
- Basics of Data Science – UniAthena
- Basics of Python – UniAthena
- Build Website with AI – Simplilearn
- Business Analysis & Project Management – Coursera
- Canva for Beginners – Simplilearn
- Emotions Management – Coursera
- Google AI Essentials – Coursera
- Google Badge – Coursera
- Graphic Designing – HCO
- AI Program – CodeAlpha
- Python Programming Certificate – UniAthena

Languages

- English – Fluent
- Urdu – Native

Thank you for visiting my online CV.