NAME: ALISHBA ZAINAB

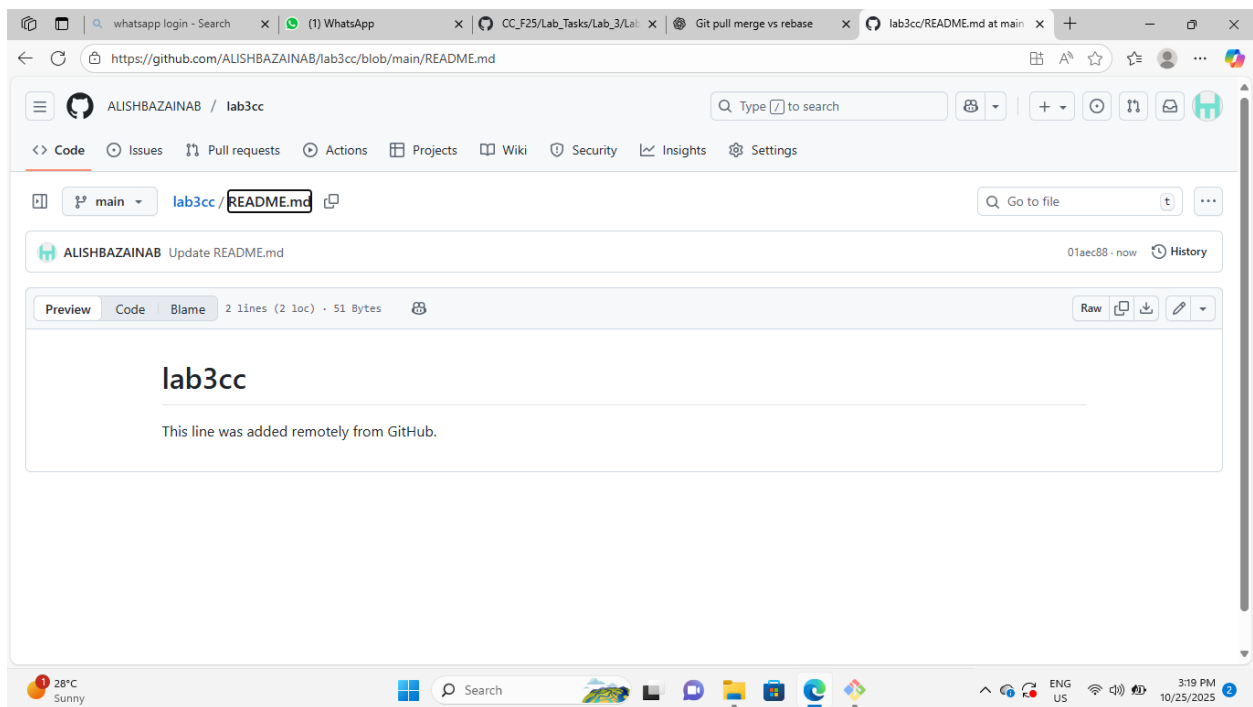**ROLL NO: 23-BSE-006**

SUBMITTED TO : SIR SHOAB

LAB 3

Task 1

Handling Local and Remote Commit Conflicts (Pull vs Pull --rebase)

```
$ git push origin main
To github.com:ALISHBAZAINAB/lab3cc.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:ALISHBAZAINAB/lab3cc.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

zaina@alishba MINGW64 ~/lab3cc (main)
$ |
```
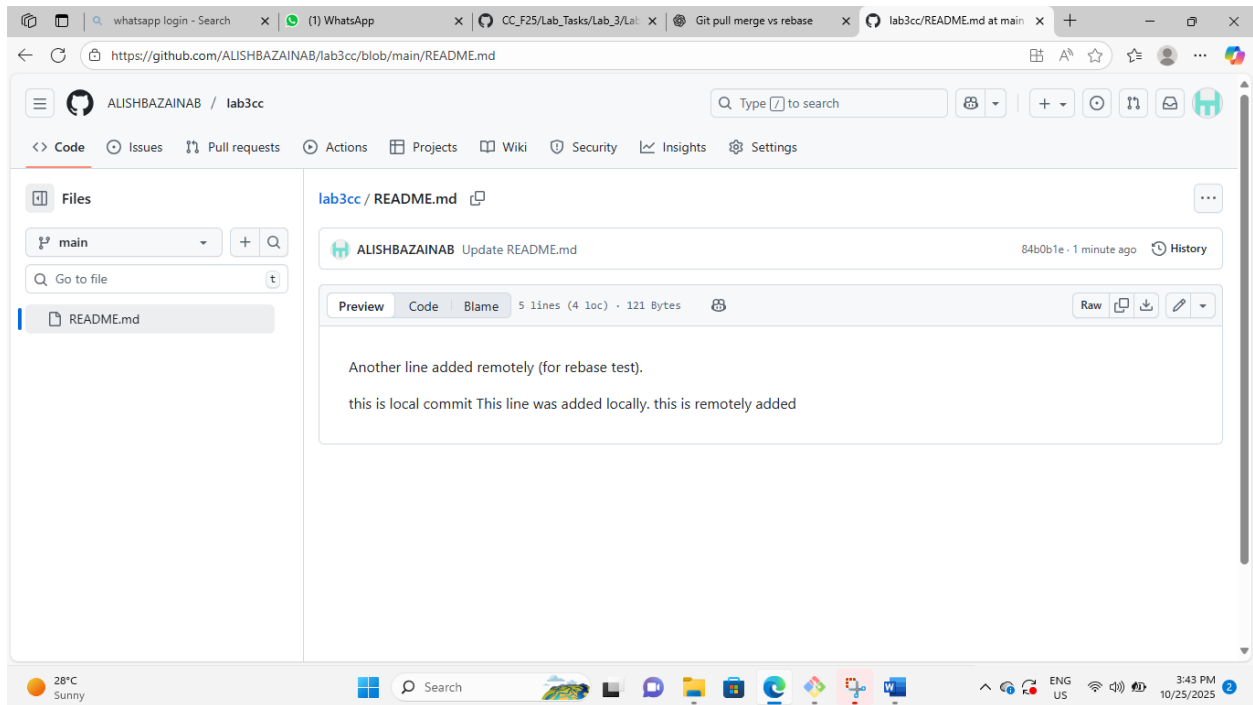
```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git pull --no-rebase origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 948 bytes | 67.00 KiB/s, done.
From github.com:ALISHBAZAINAB/lab3cc
 * branch           main         -> FETCH_HEAD
   625461d..01aec88  main         -> origin/main
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

zaina@alishba MINGW64 ~/lab3cc (main|MERGING)
$ ^C

zaina@alishba MINGW64 ~/lab3cc (main|MERGING)
$ |
```

```
aina@alishba MINGW64 ~/lab3cc (main)
 git push -u origin main
numerating objects: 10, done.
ounting objects: 100% (10/10), done.
elta compression using up to 4 threads
ompressing objects: 100% (4/4), done.
riting objects: 100% (6/6), 619 bytes | 123.00 KiB/s, done.
otal 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
o github.com:ALISHBAZAINAB/lab3cc.git
   01aec88..62c5f97  main -> main
ranch 'main' set up to track 'origin/main'.

aina@alishba MINGW64 ~/lab3cc (main)
 |
```
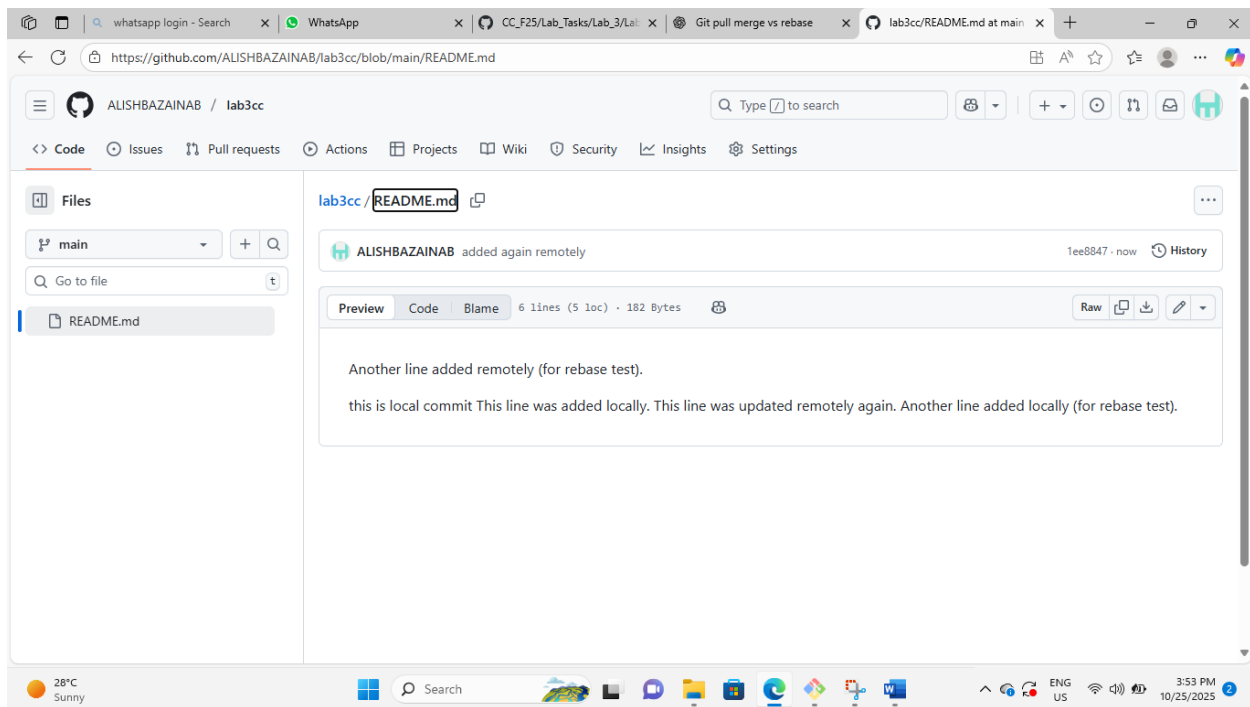
```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Second local update to README"
[main c21de71] Second local update to README
 1 file changed, 1 insertion(+)

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git pull --rebase origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 982 bytes | 57.00 KiB/s, done.
From github.com:ALISHBAZAINAB/lab3cc
 * branch            main       -> FETCH_HEAD
   62c5f97..84b0b1e  main       -> origin/main
Successfully rebased and updated refs/heads/main.

zaina@alishba MINGW64 ~/lab3cc (main)
```

```
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 340 bytes | 340.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   84b0b1e..2539076  main -> main
branch 'main' set up to track 'origin/main'.
```

Task 2

Creating and Resolving Merge Conflicts Manually

Files

main

Go to file

README.md

lab3cc / README.md

ALISHBAZAINAB added again remotely   1ee8847 · now   History

Preview   Code   Blame   6 lines (5 loc) · 182 Bytes   Raw

Another line added remotely (for rebase test).

this is local commit This line was added locally. This line was updated remotely again. Another line added locally (for rebase test).

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ cat README.md
this line was added again remotely
Another line added remotely (for rebase test).

this is local commit
This line was added locally.
this is remotely added
Another line added locally (for rebase test).
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Local conflicting change"
[main 88e52fc] Local conflicting change
 1 file changed, 1 insertion(+)

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push -u origin main
To github.com:ALISHBAZAINAB/lab3cc.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:ALISHBAZAINAB/lab3cc.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push -u origin main
To github.com:ALISHBAZAINAB/lab3cc.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:ALISHBAZAINAB/lab3cc.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

zaina@alishba MINGW64 ~/lab3cc (main)
$ git pull --rebase origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 964 bytes | 60.00 KiB/s, done.
From github.com:ALISHBAZAINAB/lab3cc
 * branch            main       -> FETCH_HEAD
   2539076..1ee8847  main       -> origin/main
Successfully rebased and updated refs/heads/main.
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 322 bytes | 161.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   1ee8847..3b535a0  main -> main
branch 'main' set up to track 'origin/main'.

zaina@alishba MINGW64 ~/lab3cc (main)
```

Task 3

Managing Ignored Files with .gitignore and Removing Tracked Files

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ cat README.md
this line was added again remotely
Another line added remotely (for rebase test).

this is local commit
This line was added locally again.
This line was updated remotely again.
Another line added locally (for rebase test).
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Local conflicting change"
[main 7677331] Local conflicting change
 1 file changed, 1 insertion(+), 1 deletion(-)
```
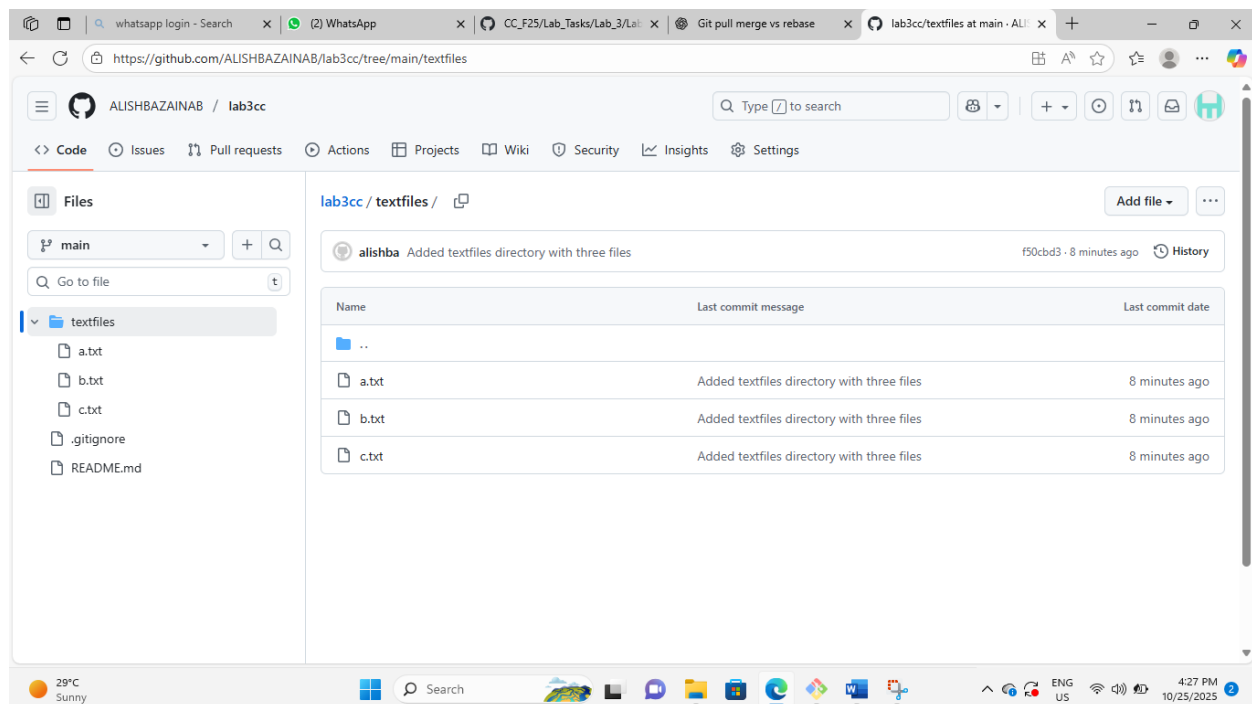
```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.04 KiB | 152.00 KiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   23b99a9..1fff0b5  main -> main
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 348 bytes | 116.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ALISHBAZAINAB/lab3cc.git
   1fff0b5..a959ca0  main -> main
```



```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 236 bytes | 118.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   a959ca0..8968db0  main -> main
```
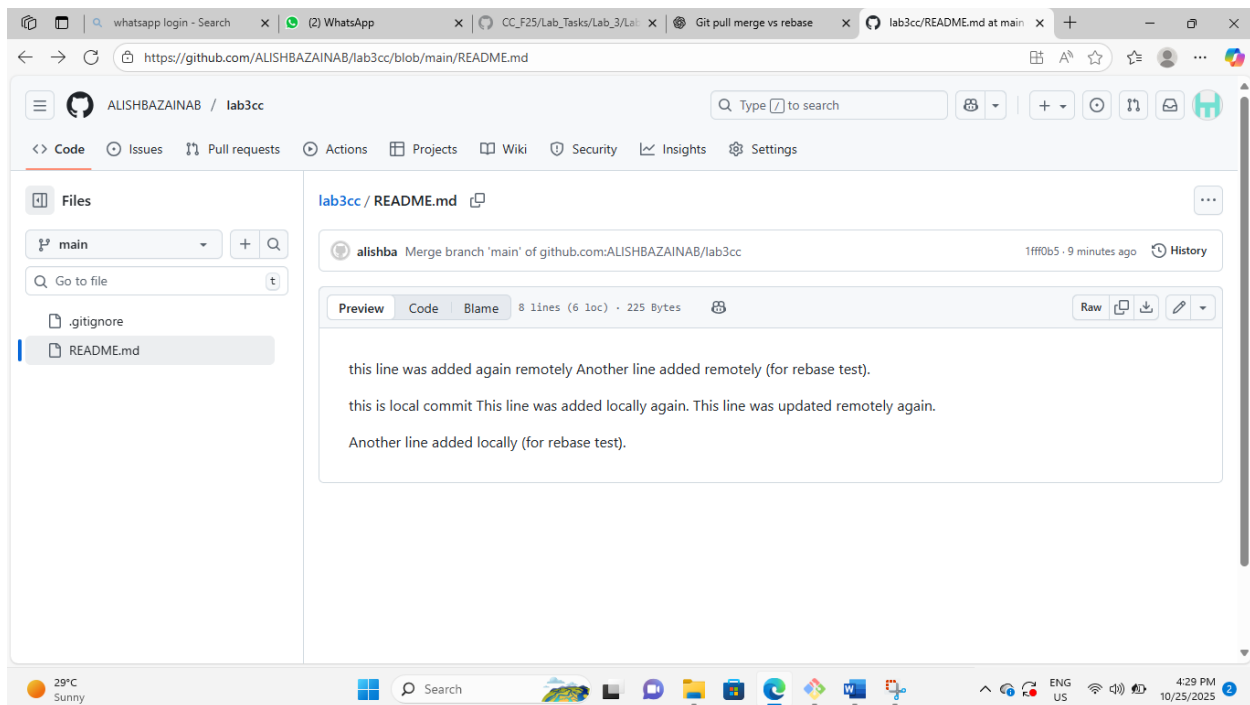
Task 4

Create Temporary Changes and Use git stash

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git commit -m "Changes the README.md file"
[feature-branch b29ab9f] Changes the README.md file
 1 file changed, 1 insertion(+), 8 deletions(-)
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout main
error: Your local changes to the following files would be overwritten by checkout:
        README.md
Please commit your changes or stash them before you switch branches.
Aborting
```

```
$ git stash
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
Saved working directory and index state WIP on feature-branch: b29ab9f Changes the README.md file

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git checkout feature-branch
Switched to branch 'feature-branch'

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git status
On branch feature-branch
nothing to commit, working tree clean

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ |
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git stash pop
On branch feature-branch
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (33f03c5cb275dbc482809e9786872e54293aa327)
```

Task 5

Checkout a Specific Commit Using git log

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git log --oneline
b29ab9f (HEAD -> feature-branch) Changes the README.md file
8968db0 (origin/main, origin/HEAD, main) Removed tracked textfiles directory
a959ca0 Added .gitignore to ignore textfiles directory
1fff0b5 Merge branch 'main' of github.com:ALISHBAZAINAB/lab3cc
f50cbd3 Added textfiles directory with three files
7677331 Local conflicting change
23b99a9 Update README.md
3b535a0 Local conflicting change
1ee8847 added again remotely
2539076 Second local update to README
84b0b1e Update README.md
62c5f97 Resolved merge conflict in README.md
a403c7d Local update to README
01aec88 Update README.md
625461d Initial commit
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout 23b99a9
error: Your local changes to the following files would be overwritten by checkout:
        README.md
Please commit your changes or stash them before you switch branches.
Aborting
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

zaina@alishba MINGW64 ~/lab3cc (main)
$ |
```

Task 6

Resetting Commits (Soft vs Hard Reset) (With Verification Steps)

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Second test commit"
[main b51cf5c] Second test commit
 1 file changed, 1 insertion(+)

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git log --oneline
b51cf5c (HEAD -> main) Second test commit
71db66f Added test line
8968db0 (origin/main, origin/HEAD) Removed tracked textfiles directory
a959ca0 Added .gitignore to ignore textfiles directory
1fff0b5 Merge branch 'main' of github.com:ALISHBAZAINAB/lab3cc
f50cbd3 Added textfiles directory with three files
7677331 Local conflicting change
23b99a9 Update README.md
3b535a0 Local conflicting change
1ee8847 added again remotely
2539076 Second local update to README
34b0b1e Update README.md
62c5f97 Resolved merge conflict in README.md
a403c7d Local update to README
01aec88 Update README.md
625461d Initial commit
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ cat README.md
this line was added again remotely
Another line added remotely (for rebase test).

this is local commit
This line was added locally again.
This line was updated remotely again.

Another line added locally (for rebase test).
This is the first test line.

This is the second test line.
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git log --oneline
71db66f (HEAD -> main) Added test line
8968db0 (origin/main, origin/HEAD) Removed tracked textfiles directory
a959ca0 Added .gitignore to ignore textfiles directory
1fff0b5 Merge branch 'main' of github.com:ALISHBAZAINAB/lab3cc
f50cbd3 Added textfiles directory with three files
7677331 Local conflicting change
23b99a9 Update README.md
3b535a0 Local conflicting change
1ee8847 added again remotely
2539076 Second local update to README
84b0b1e Update README.md
62c5f97 Resolved merge conflict in README.md
a403c7d Local update to README
01aec88 Update README.md
625461d Initial commit

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git reset --hard HEAD~1
HEAD is now at 71db66f Added test line

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
$ git log --oneline
71db66f (HEAD -> main) Added test line
8968db0 (origin/main, origin/HEAD) Removed tracked textfiles directory
a959ca0 Added .gitignore to ignore textfiles directory
1fff0b5 Merge branch 'main' of github.com:ALISHBAZAINAB/lab3cc
f50cbd3 Added textfiles directory with three files
7677331 Local conflicting change
23b99a9 Update README.md
3b535a0 Local conflicting change
1ee8847 added again remotely
2539076 Second local update to README
84b0b1e Update README.md
62c5f97 Resolved merge conflict in README.md
a403c7d Local update to README
01aec88 Update README.md
625461d Initial commit

zaina@alishba MINGW64 ~/lab3cc (main)
```

Task 7

Amending the Last Commit

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Fix log message"
[main 5ec205f] Fix log message
 1 file changed, 1 insertion(+)
```

```
[main 8b0c712] Fix log message
 Date: Sat Oct 25 17:19:40 2025 +0500
 1 file changed, 2 insertions(+)

zaina@alishba MINGW64 ~/lab3cc (main)
```

Task 8

Reverting a Commit (Safe Undo on Remote Branch)

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (9/9), 876 bytes | 219.00 KiB/s, done.
Total 9 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   8968db0..ba917bf  main -> main
```

```
[main 25b75ba] Revert "Added temporary text file"
 1 file changed, 1 deletion(-)
 delete mode 100644 temp.txt
zaina@alishba MINGW64 ~/lab3cc (main)
$
```

```
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 257 bytes | 85.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   ba917bf..25b75ba  main -> main
```

Task 9

Force Push (With Caution)

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git checkout -b test-force
Switched to a new branch 'test-force'
```

```
zaina@alishba MINGW64 ~/lab3cc (test-force)
$ git commit -m "Force push test commit"
[test-force 1dfc58f] Force push test commit
 1 file changed, 1 insertion(+)
```

```
zaina@alishba MINGW64 ~/lab3cc (test-force)
$ git push origin test-force
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 335 bytes | 83.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'test-force' on GitHub by visiting:
remote:      https://github.com/ALISHBAZAINAB/lab3cc/pull/new/test-force
remote:
To github.com:ALISHBAZAINAB/lab3cc.git
 * [new branch]      test-force -> test-force
```

```
zaina@alishba MINGW64 ~/lab3cc (test-force)
$ git reset --hard HEAD~1
HEAD is now at 25b75ba Revert "Added temporary text file"
```

```
zaina@alishba MINGW64 ~/lab3cc (test-force)
$ git push origin test-force
To github.com:ALISHBAZAINAB/lab3cc.git
 ! [rejected]        test-force -> test-force (non-fast-forward)
error: failed to push some refs to 'github.com:ALISHBAZAINAB/lab3cc.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```
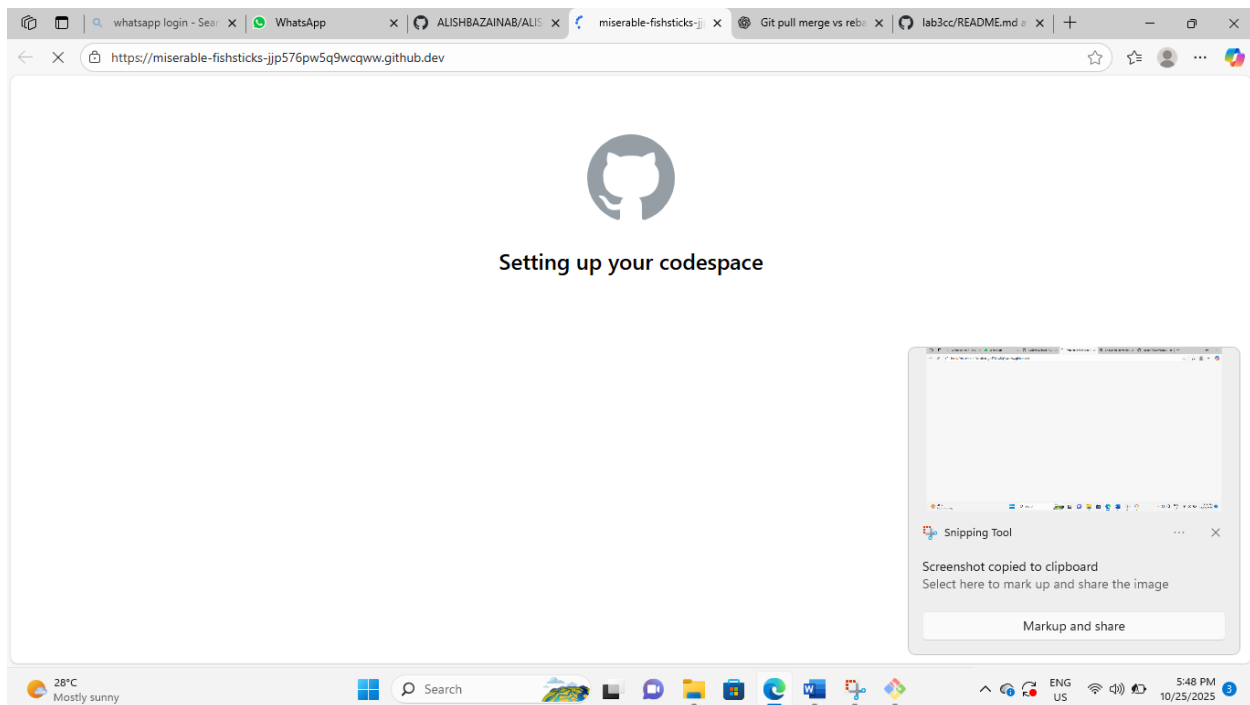
```
zaina@alishba MINGW64 ~/lab3cc (test-force)
$ git push origin test-force --force
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ALISHBAZAINAB/lab3cc.git
 + 1dfc58f...25b75ba test-force -> test-force (forced update)
```

Task 10

Running Gitea in GitHub Codespaces via Docker Compose

PROBLEMS   OUTPUT   TERMINAL   PORTS

bash

```
@ALISHBAZAINAB →/workspaces/ALISHBA-ZAINAB (main) $ docker compose up -d
 ✔ db Pulled                                                    12.7s
 ✔ gitea Pulled                                                 15.8s
[+] Running 5/5
 ✔ Network webnet          Created                               0.1s
 ✔ Volume "gitea_postgres" Created                               0.0s
 ✔ Volume "gitea"          Created                               0.0s
 ✔ Container gitea         Started                               1.5s
 ✔ Container gitea_db      Started                               1.5s
○ @ALISHBAZAINAB →/workspaces/ALISHBA-ZAINAB (main) $ 
```

https://sinister-corpse-q75q4r5gq46wfxj6g-3000.app.github.dev

Initial Configuration

If you run Gitea inside Docker, please read the documentation before changing any settings.

Database Settings

Gitea requires MySQL, PostgreSQL, MSSQL, SQLite3 or TiDB (MySQL protocol).

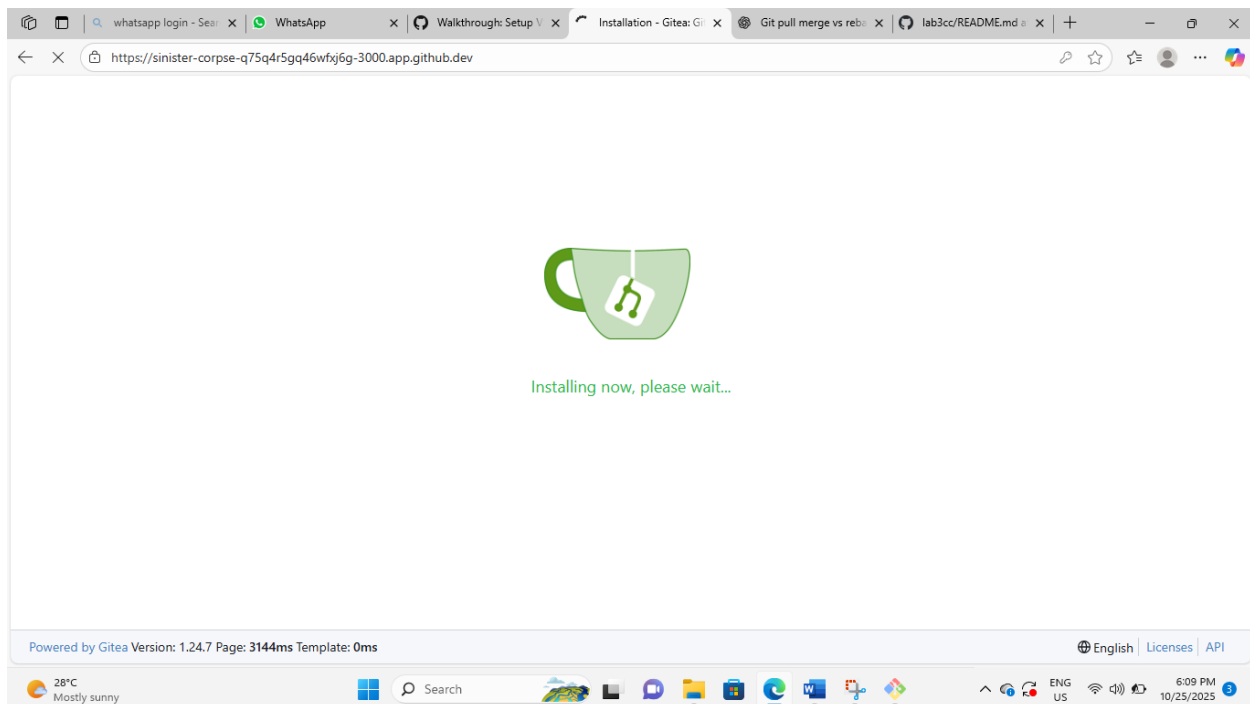|	
Database Type *	PostgreSQL
Host *	db:5432
Username *	gitea
Password *	•••••
Database Name *	gitea
SSL *	Disable
Schema	

Leave blank for database default ("public").

General Settings

Site Title *   Gitea: Git with a cup of tea

---

https://sinister-corpse-q75q4r5gq46wfxj6g-3000.app.github.dev

Installing now, please wait...

Powered by Gitea Version: 1.24.7 Page: 3144ms Template: 0ms

English | Licenses | API
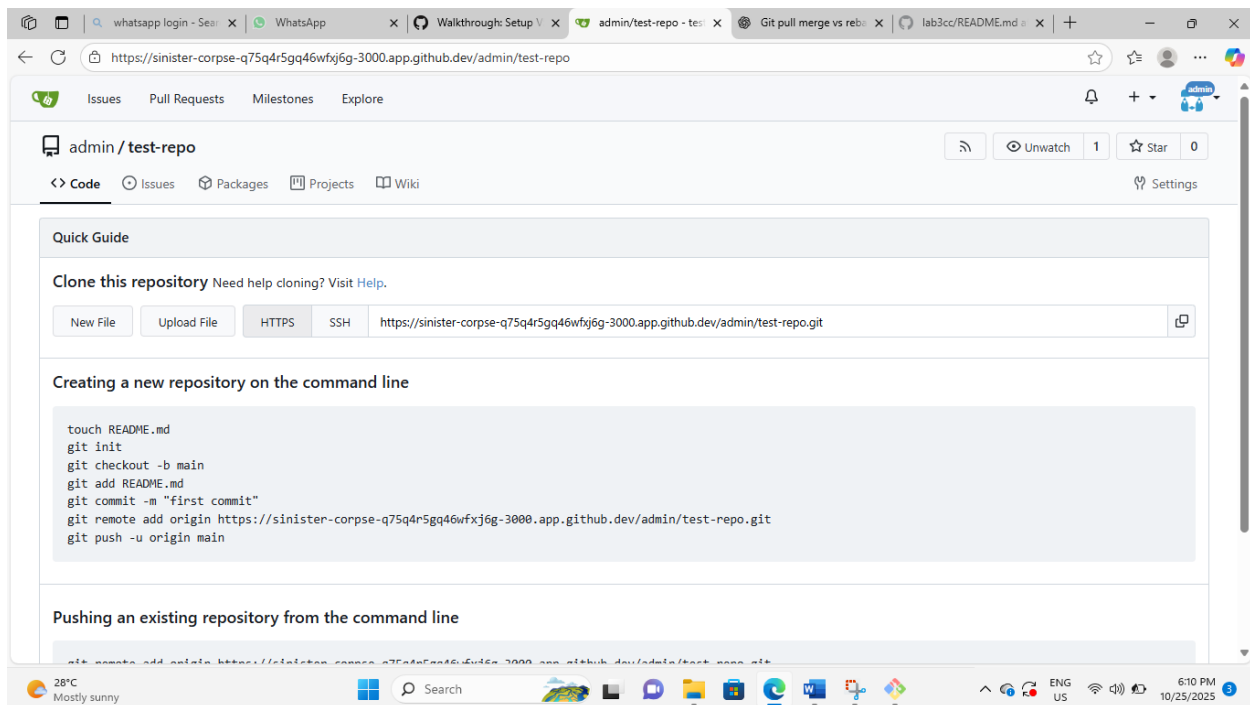
Task 11

Creating a GitHub Pages Portfolio Site
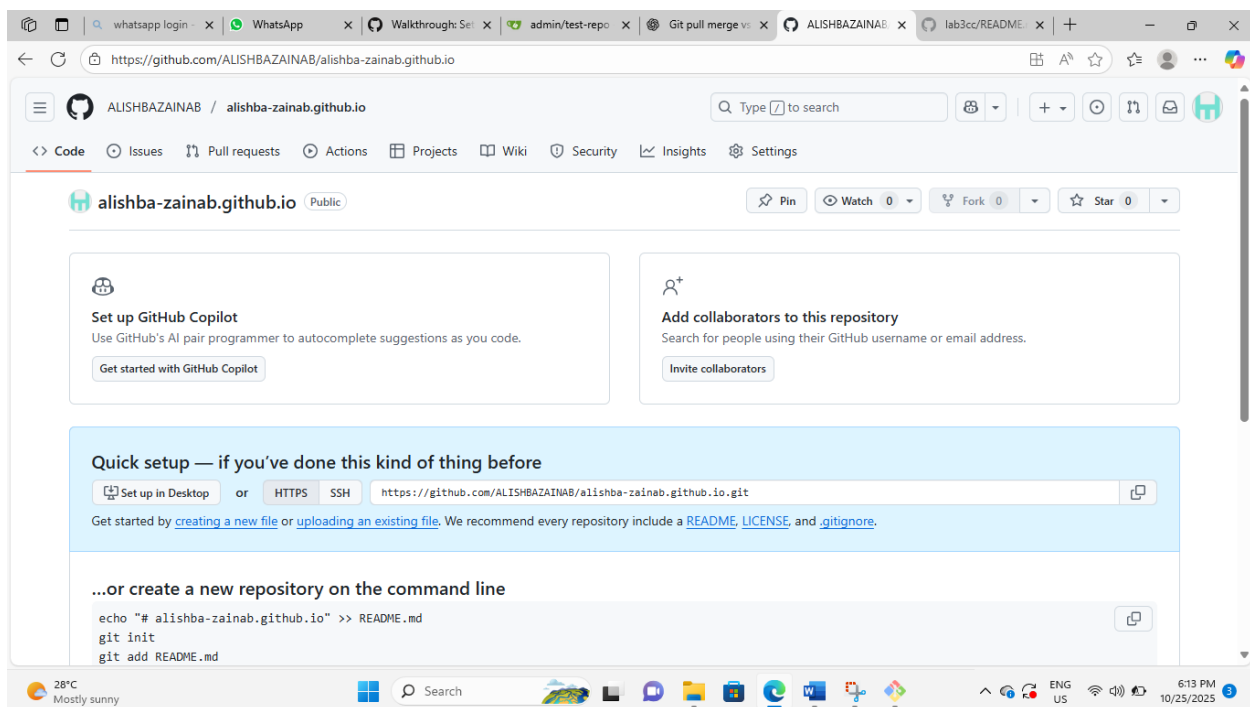
```
zaina@alishba MINGW64 ~/lab3cc/portfolio (test-force)
$ echo "<h1>Welcome to My Portfolio</h1>" > index.html

zaina@alishba MINGW64 ~/lab3cc/portfolio (test-force)
$ echo "body { font-family: Arial; text-align: center; }" > style.css

zaina@alishba MINGW64 ~/lab3cc/portfolio (test-force)
$ echo "console.log('Portfolio Loaded');" > script.js

zaina@alishba MINGW64 ~/lab3cc/portfolio (test-force)
$ |
```

```
zaina@alishba MINGW64 ~/lab3cc/portfolio (master)
$ git branch -M main

zaina@alishba MINGW64 ~/lab3cc/portfolio (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 469 bytes | 234.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ALISHBAZAINAB/alishba-zainab.github.io.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```
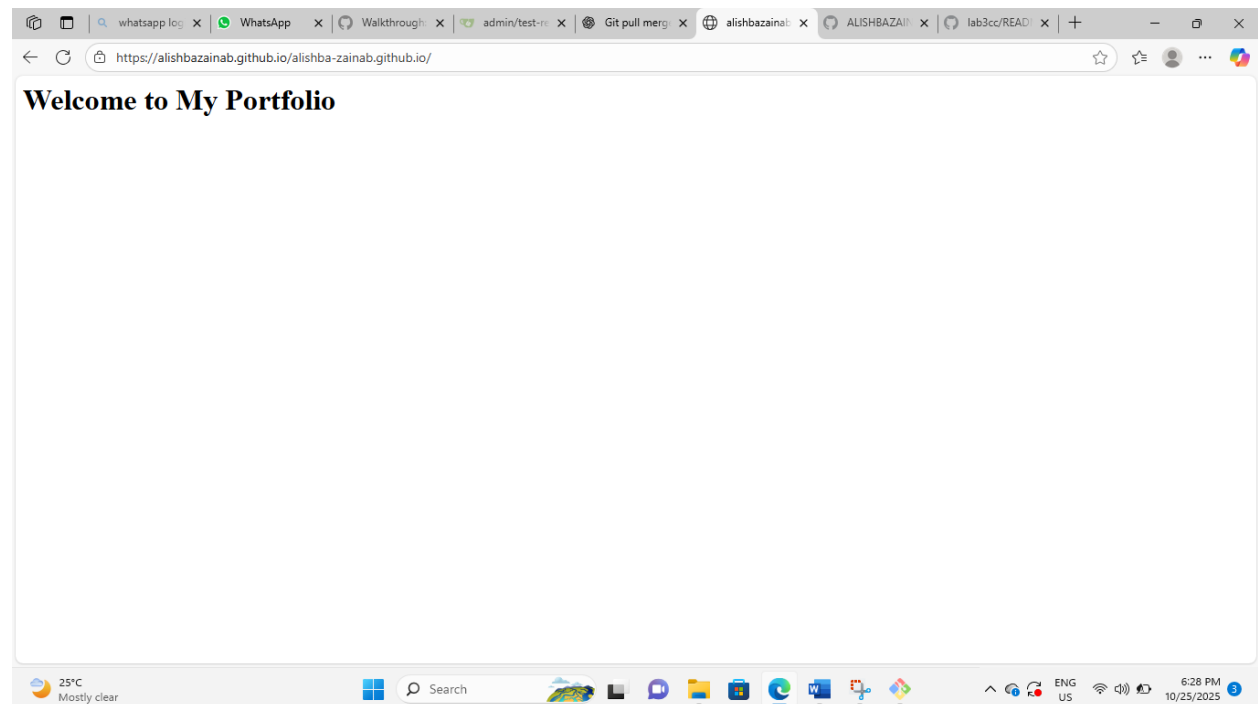
GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at https://alishbazainab.github.io/alishba-zainab.github.io/   ☐ Visit site   Unpublish site
Last deployed by ☐ ALISHBAZAINAB 1 minute ago

Build and deployment

Welcome to My Portfolio

About Me

I am a passionate software engineering student with strong interest in web development, programming, and modern technologies. I enjoy learning new skills and building practical projects.

Education

Level	Institute	Board/University	Grade/CGPA
SSC	Army Public School	Federal Board	A+
HSSC	Harvard College	Federal Board	A+
Bachelor	FJWU	-	-

Skills

- HTML / CSS / JavaScript
- Python / Java
- Git & GitHub / Git LFS
- Web Development & Frontend Design
- Networking and Software Engineering Fundamentals

Evaluation questions

Question 1

this line was added again remotely Another line added remotely (for rebase test).

this is local commit This line was added locally again. This line was updated remotely again.

Another line added locally (for rebase test). This is the first test line.

This is for the amend commit test. This line was forgotten in the first commit. This line was edited from GitHub.

```
zaina@alishba MINGW64 ~/lab3cc/portfolio (main)
$ git commit -m "Local edit to README"
[main 071a9d0] Local edit to README
 1 file changed, 3 insertions(+)
 create mode 100644 README.md

zaina@alishba MINGW64 ~/lab3cc/portfolio (main)
$
```

```
$ git push origin main
To github.com:ALISHBAZAINAB/lab3cc.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:ALISHBAZAINAB/lab3cc.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

zaina@alishba MINGW64 ~/lab3cc (main)
$ |
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git pull --no-rebase origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 948 bytes | 67.00 KiB/s, done.
From github.com:ALISHBAZAINAB/lab3cc
 * branch            main          -> FETCH_HEAD
   625461d..01aec88  main          -> origin/main
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

zaina@alishba MINGW64 ~/lab3cc (main|MERGING)
$ ^C

zaina@alishba MINGW64 ~/lab3cc (main|MERGING)
$ |
```
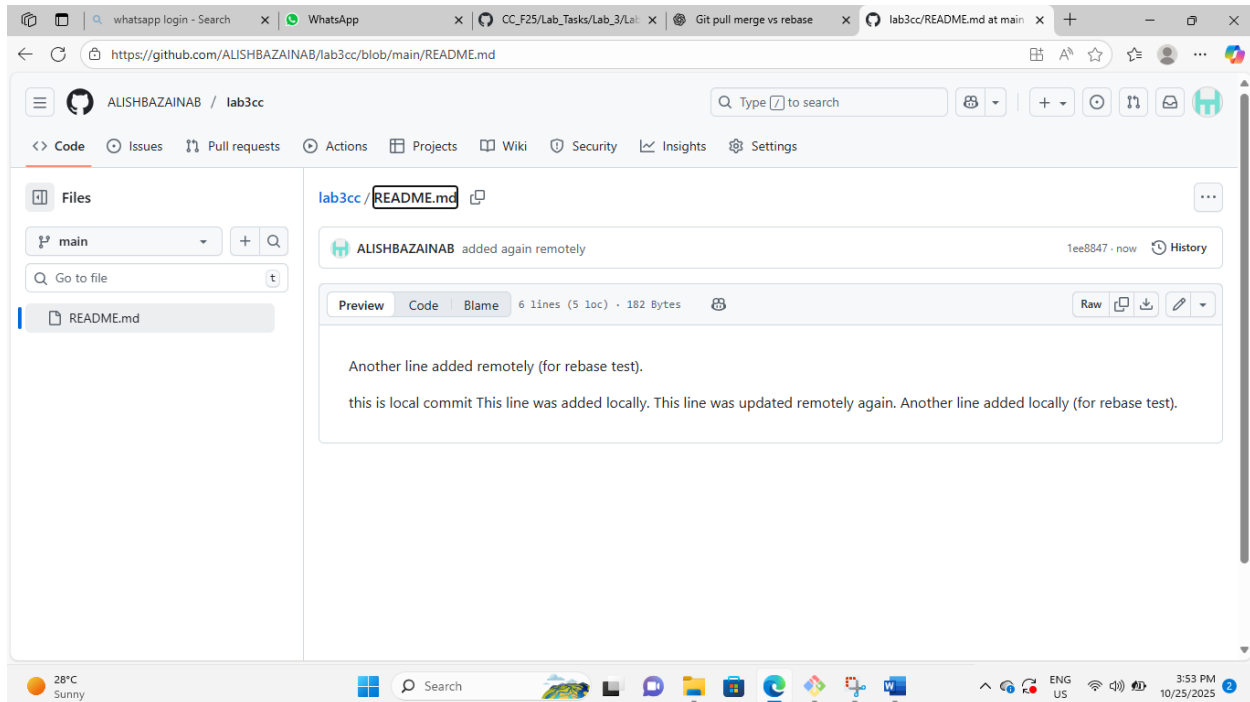
```
aina@alishba MINGW64 ~/lab3cc (main)
 git push -u origin main
numerating objects: 10, done.
ounting objects: 100% (10/10), done.
elta compression using up to 4 threads
ompressing objects: 100% (4/4), done.
riting objects: 100% (6/6), 619 bytes | 123.00 KiB/s, done.
otal 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
o github.com:ALISHBAZAINAB/lab3cc.git
   01aec88..62c5f97  main -> main
ranch 'main' set up to track 'origin/main'.

aina@alishba MINGW64 ~/lab3cc (main)
 |
```

Question 2

A GitHub repository page for `ALISHBAZAINAB / lab3cc` showing the README.md file at main branch.

URL: https://github.com/ALISHBAZAINAB/lab3cc/blob/main/README.md

ALISHBAZAINAB added again remotely — 1ee8847 · now — History

6 lines (5 loc) · 182 Bytes

README.md preview content:

Another line added remotely (for rebase test).

this is local commit This line was added locally. This line was updated remotely again. Another line added locally (for rebase test).

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ cat README.md
this line was added again remotely
Another line added remotely (for rebase test).

this is local commit
This line was added locally.
this is remotely added
Another line added locally (for rebase test).
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git pull --rebase origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 982 bytes | 57.00 KiB/s, done.
From github.com:ALISHBAZAINAB/lab3cc
 * branch            main        -> FETCH_HEAD
   62c5f97..84b0b1e  main        -> origin/main
Successfully rebased and updated refs/heads/main.

zaina@alishba MINGW64 ~/lab3cc (main)
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Local conflicting change"
[main 88e52fc] Local conflicting change
 1 file changed, 1 insertion(+)

zaina@alishba MINGW64 ~/lab3cc (main)
$
```

Question 3

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ cat README.md
this line was added again remotely
Another line added remotely (for rebase test).

this is local commit
This line was added locally again.
This line was updated remotely again.
Another line added locally (for rebase test).
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git commit -m "Local conflicting change"
[main 7677331] Local conflicting change
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.04 KiB | 152.00 KiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:ALISHBAZAINAB/lab3cc.git
   23b99a9..1fff0b5  main -> main
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 348 bytes | 116.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:ALISHBAZAINAB/lab3cc.git
   1fff0b5..a959ca0  main -> main
```

Question 4

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git commit -m "Changes the README.md file"
[feature-branch b29ab9f] Changes the README.md file
 1 file changed, 1 insertion(+), 8 deletions(-)
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout main
error: Your local changes to the following files would be overwritten by checkout:
        README.md
Please commit your changes or stash them before you switch branches.
Aborting
```

```
$ git stash
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
Saved working directory and index state WIP on feature-branch: b29ab9f Changes the README.md file

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
zaina@alishba MINGW64 ~/lab3cc (main)
$ git checkout feature-branch
Switched to branch 'feature-branch'

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$
```

```
zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$ git status
On branch feature-branch
nothing to commit, working tree clean

zaina@alishba MINGW64 ~/lab3cc (feature-branch)
$
```