**Cloud Computing Lab**

**Safa Jahangir**

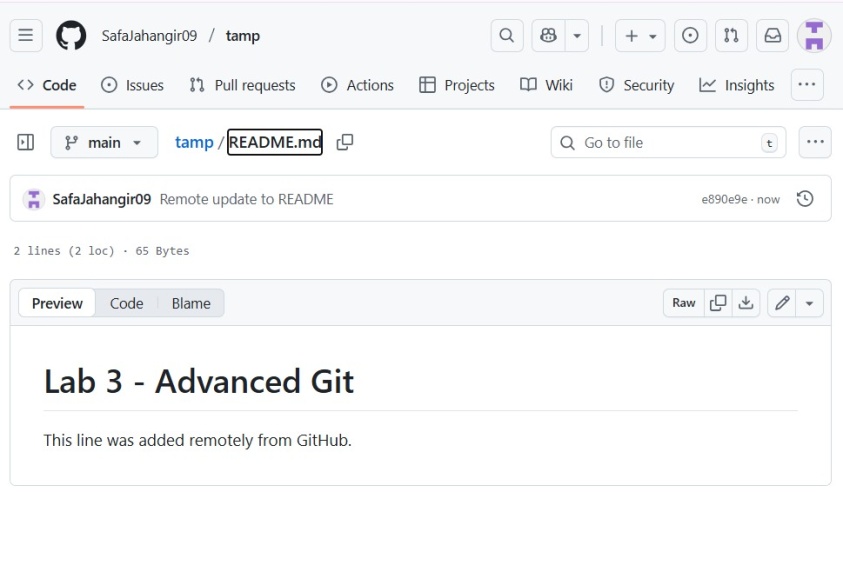
**BSE-V B**

**2023-BSE-056**

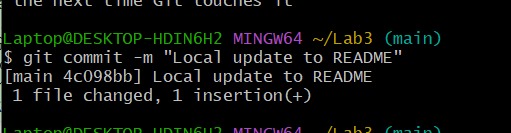
**LAB 03**

**Task 1 – Handling Local and Remote Commit Conflicts (Pull vs Pull --rebase)**

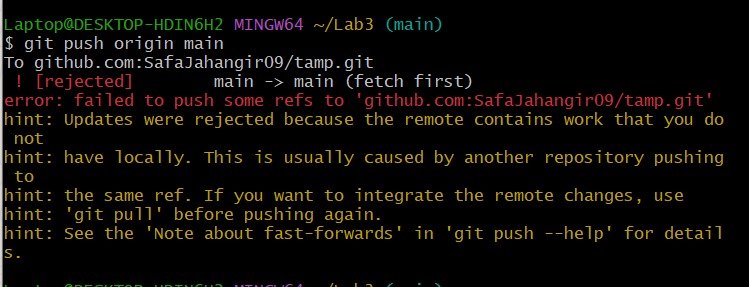
* remote\_edit.png



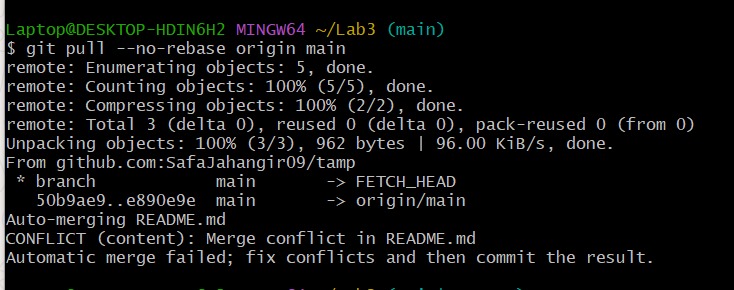
* local\_commit.png



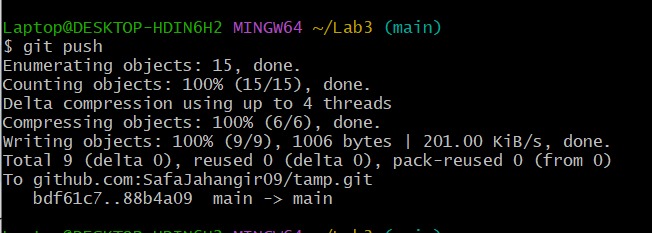
* push\_error.png



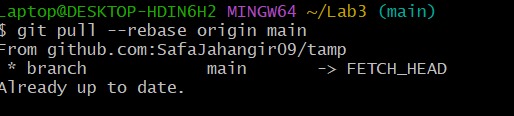
* merge\_commit.png



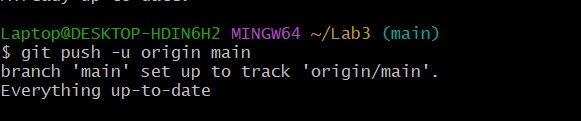
* push\_after\_merge.png



* rebase\_pull.png

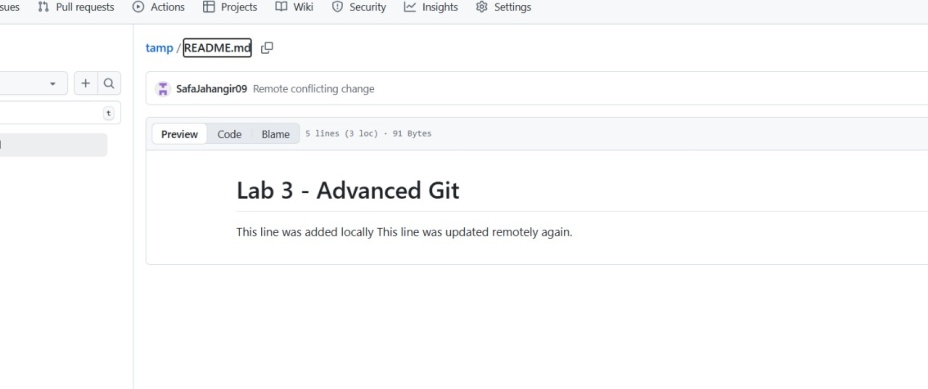


* push\_after\_rebase.png

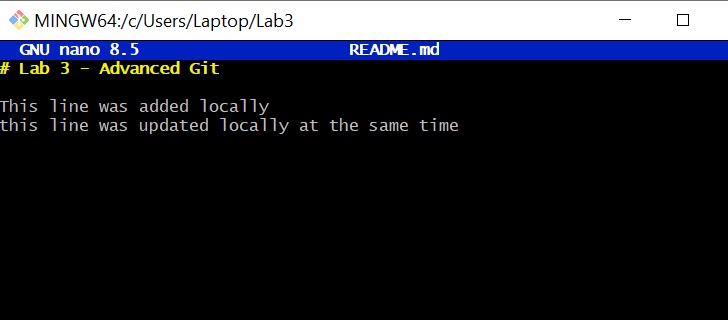


## Task 2 – Creating and Resolving Merge Conflicts Manually

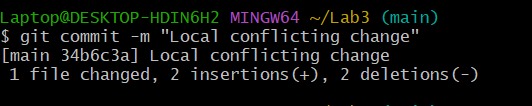
* remote\_conflict\_edit.png



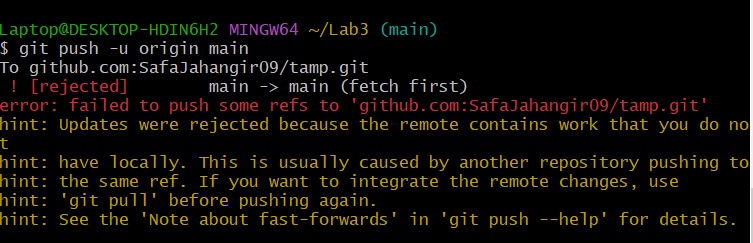
* local\_conflict\_edit.png



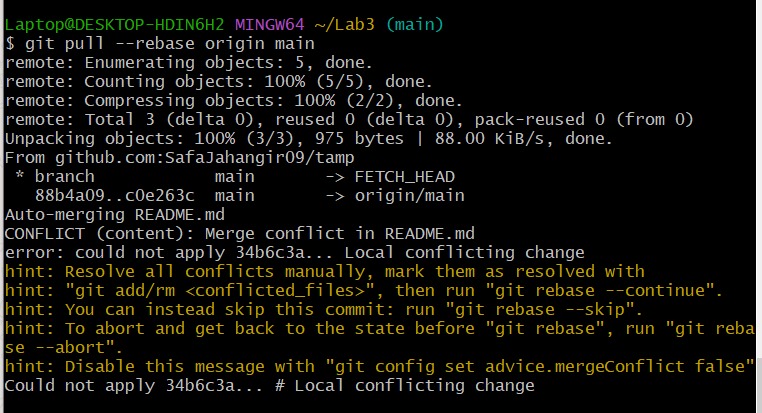
* local\_conflict\_commit.png



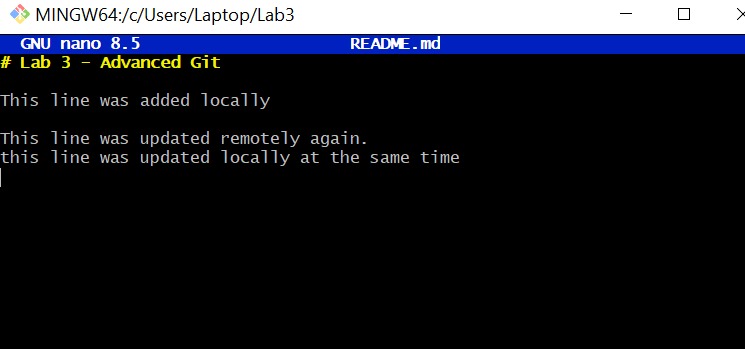
* conflict\_push\_error.png



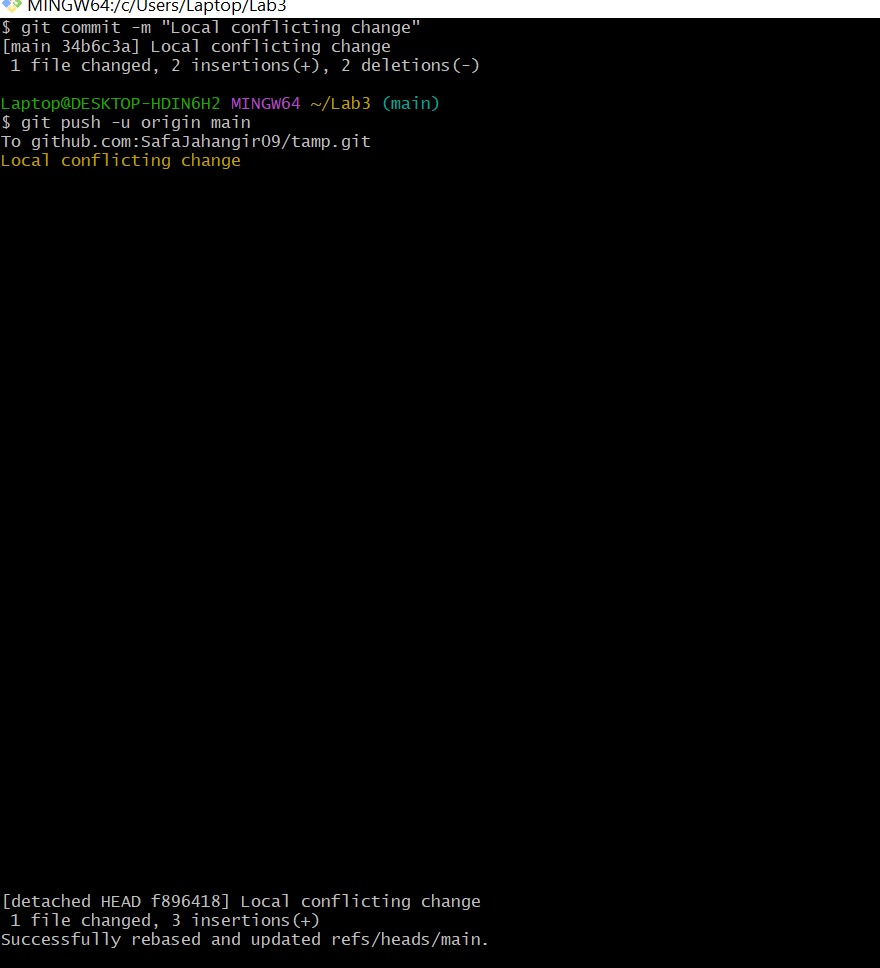
* conflict\_message.png



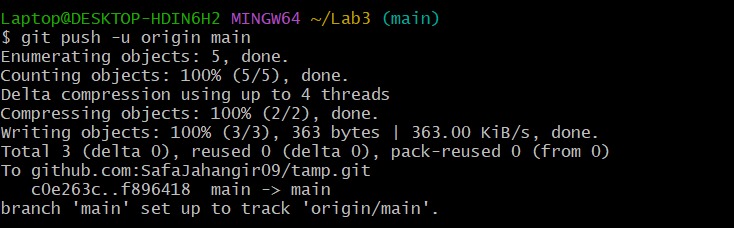
* resolved\_readme.png



* rebase\_continue.png

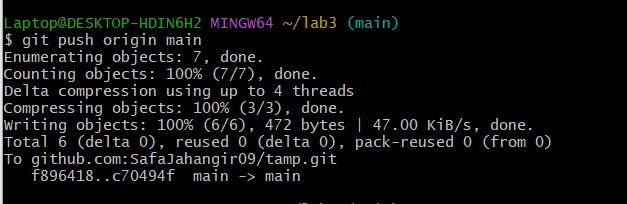


* push\_after\_resolve.png

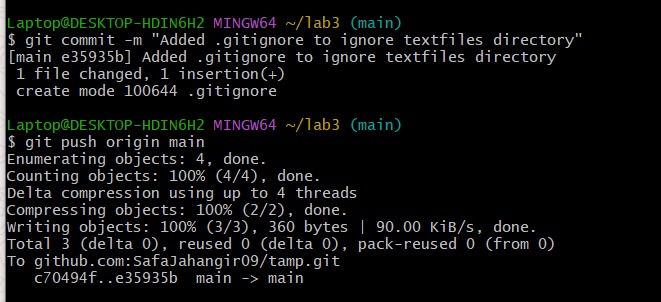


## Task 3 – Managing Ignored Files with .gitignore and Removing Tracked Files

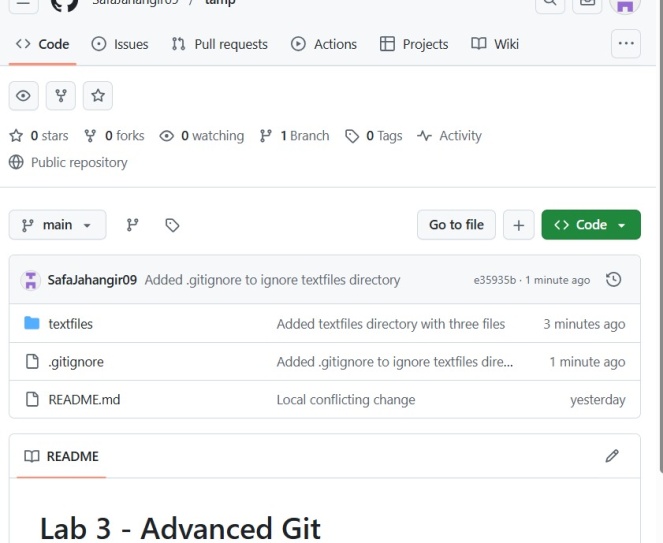
* push\_textfiles.png



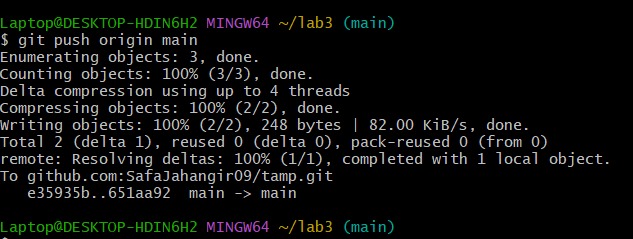
* gitignore\_push.png



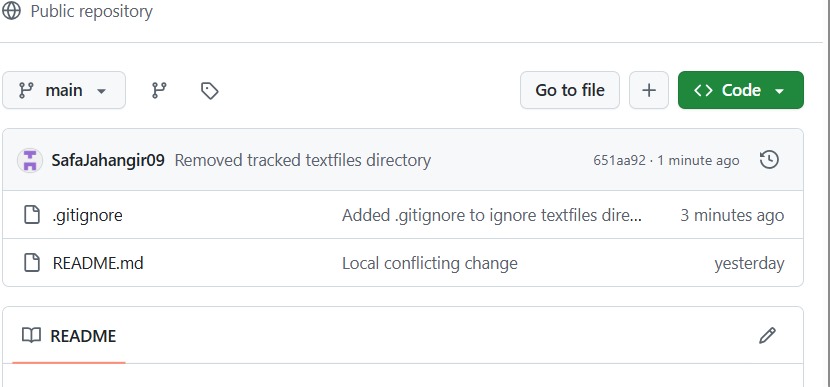
* repo\_still\_has\_textfiles.png



* rm\_cached\_push.png

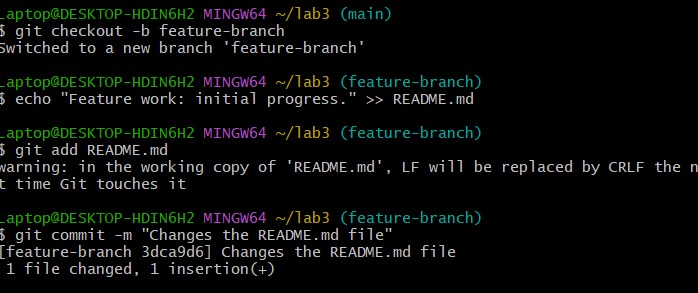


* repo\_textfiles\_removed.png

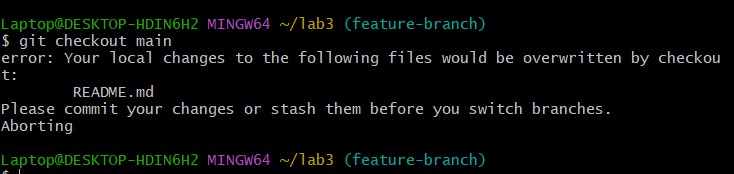


## Task 4 – Create Temporary Changes and Use git stash

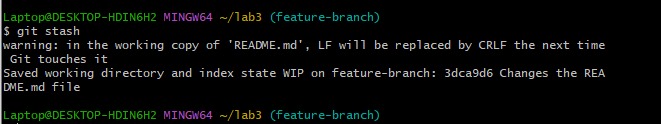
* modified\_readme.png



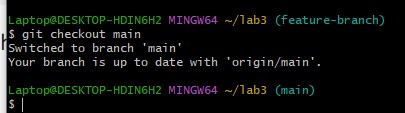
* checkout\_error.png



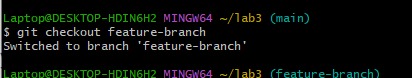
* stash\_command.png



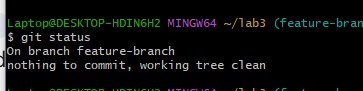
* branch\_switched.png



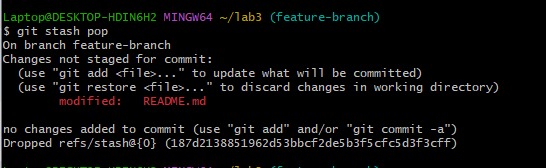
* back\_to\_feature.png



* status\_clean.png

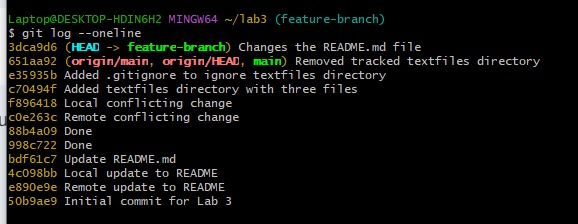


* stash\_pop.png

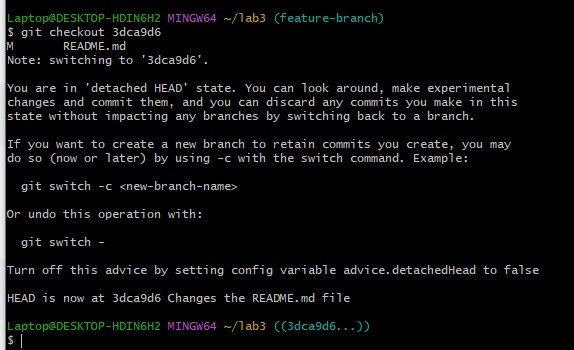


## Task 5 – Checkout a Specific Commit Using git log

* log\_before\_checkout.png



* detached\_head.png

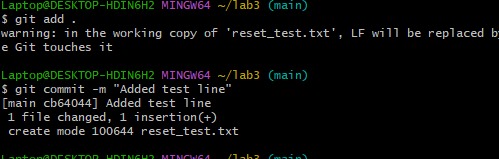


* back\_to\_main.png

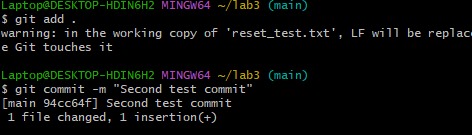
C:\Users\Laptop\AppData\Local\Packages\5319275A.WhatsAppDesktop_cv1g1gvanyjgm\TempState\76BF2C10E5AE5F0BBE2D740E4662EF38\WhatsApp Image 2025-10-18 at 11.07.05_336906e7.jpg

## Task 6 – Resetting Commits (Soft vs Hard Reset) ****(With Verification Steps)****

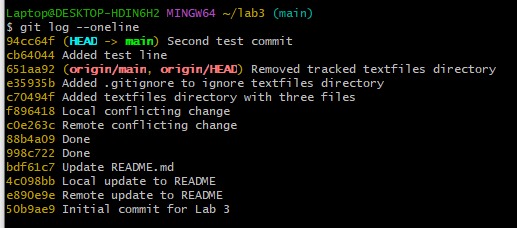
* first\_commit.png



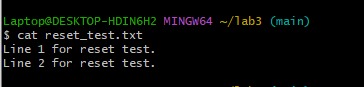
* second\_commit.png



* log\_before\_reset.png



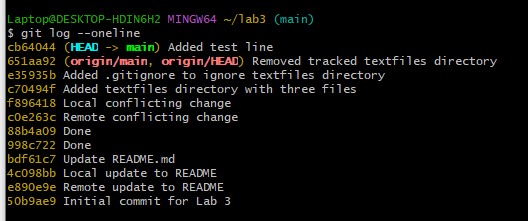
* file\_before\_reset.png



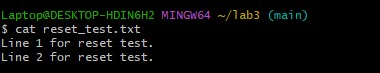
* soft\_reset.png

C:\Users\Laptop\AppData\Local\Packages\5319275A.WhatsAppDesktop_cv1g1gvanyjgm\TempState\48F017DD81AC30FD69C792D63D07E1BC\WhatsApp Image 2025-10-18 at 11.10.44_aa312ee3.jpg

* log\_after\_soft\_reset.png



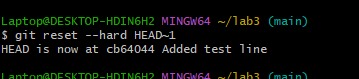
* file\_after\_soft\_reset.png



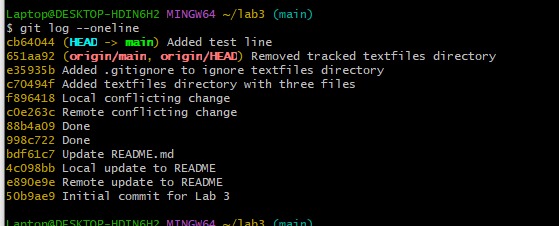
* file\_after\_hard\_reset.png



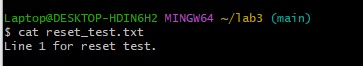
* hard\_reset.png



* log\_after\_hard\_reset.png

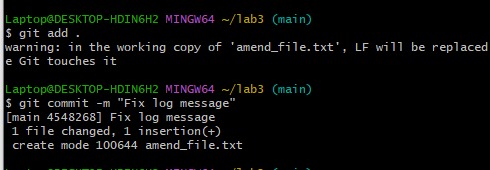


* file\_after\_hard\_reset.png

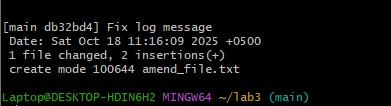


## Task 7 – Amending the Last Commit

* first\_amend\_commit.png

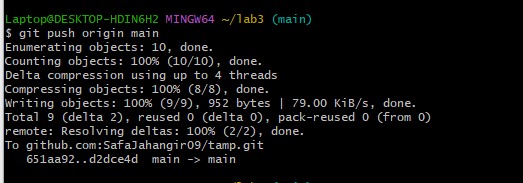


* amend\_commit.png

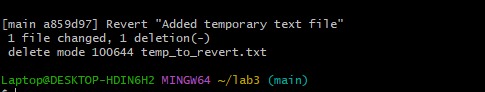


## Task 8 – Reverting a Commit (Safe Undo on Remote Branch)

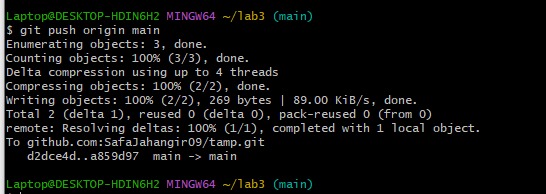
* commit\_temp\_file.png



* revert\_commit.png



* revert\_push.png

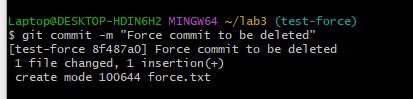


## Task 9 – Force Push (With Caution)

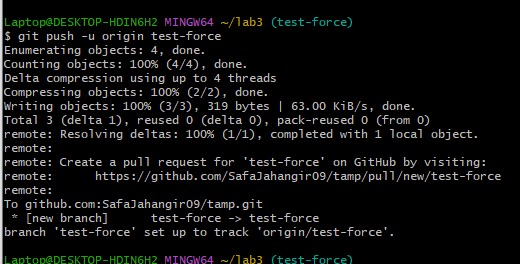
* new\_branch.png

C:\Users\Laptop\AppData\Local\Packages\5319275A.WhatsAppDesktop_cv1g1gvanyjgm\TempState\E49F07FDC4DF82215EF189AF749AC7B9\WhatsApp Image 2025-10-18 at 11.25.18_f7b503aa.jpg

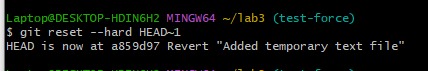
* force\_commit.png



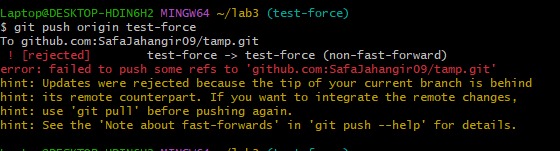
* push\_force\_branch.png



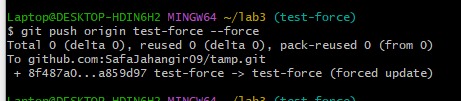
* hard\_reset\_force.png



* normal\_push.png

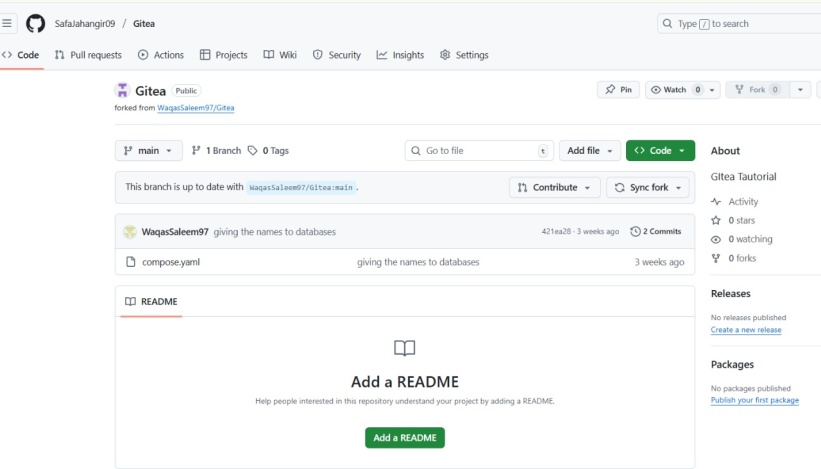


* force\_push.png

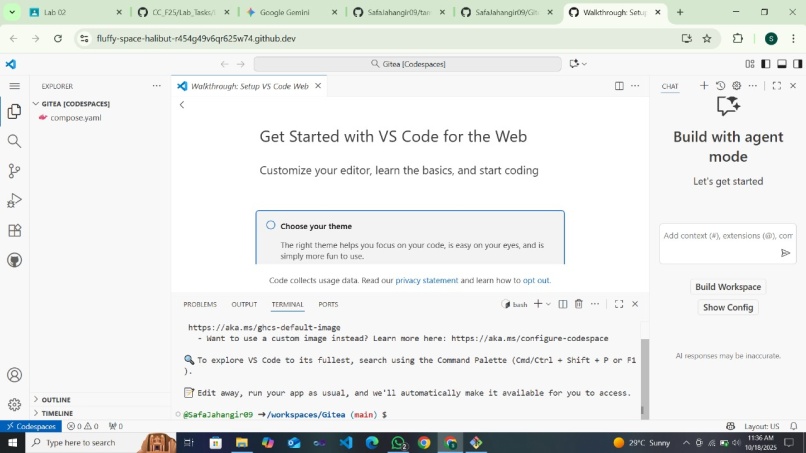


## Task 10 – Running Gitea in GitHub Codespaces via Docker Compose

* forked\_gitea.png



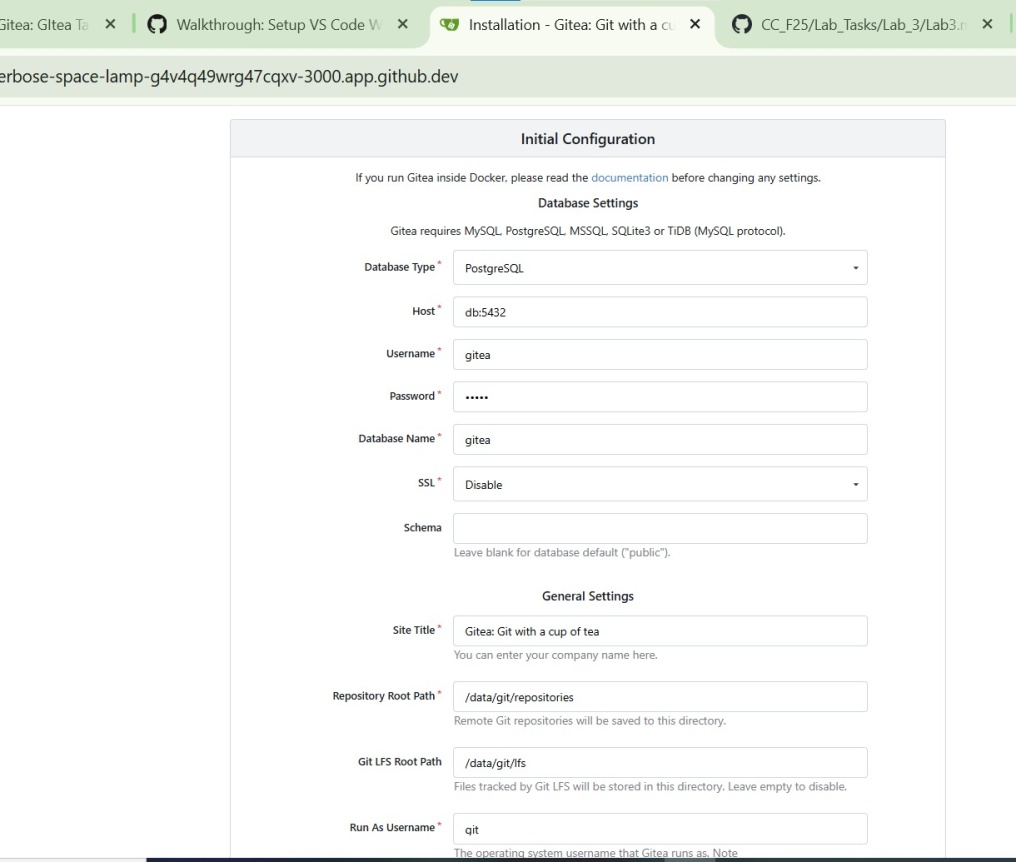
* codespace\_loading.png



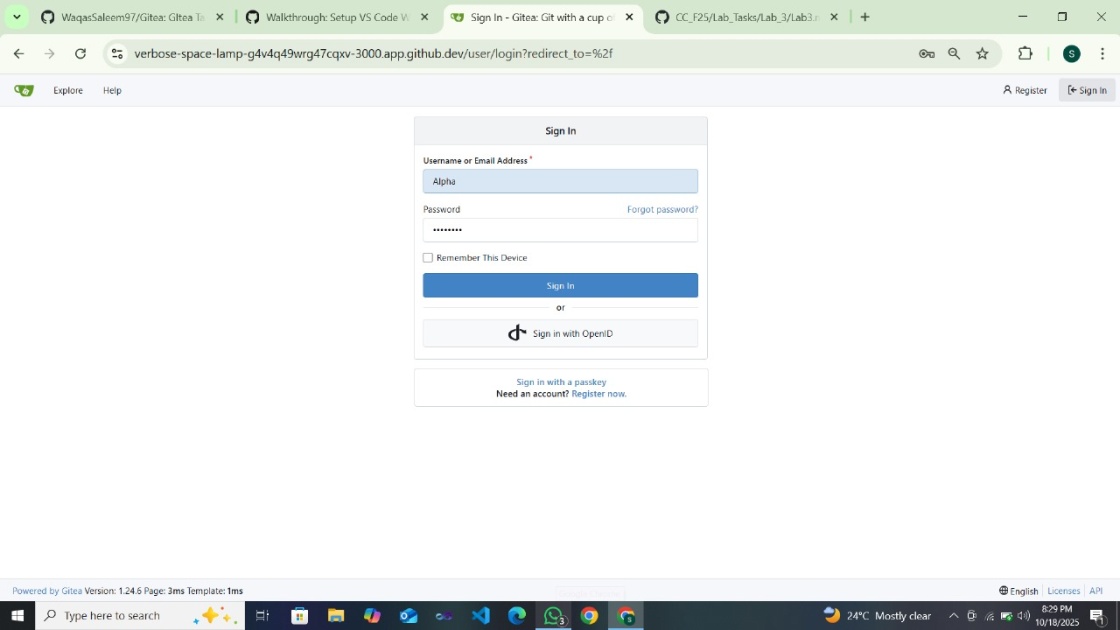
* docker\_up.png



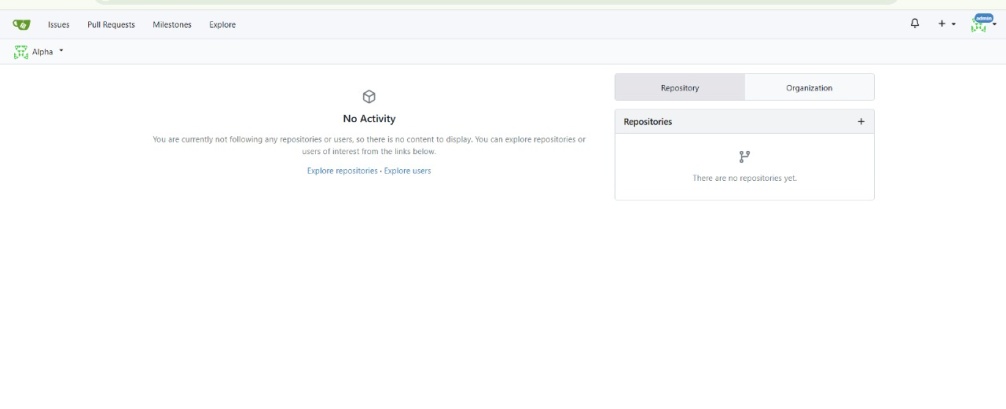
* gitea\_install\_page.png



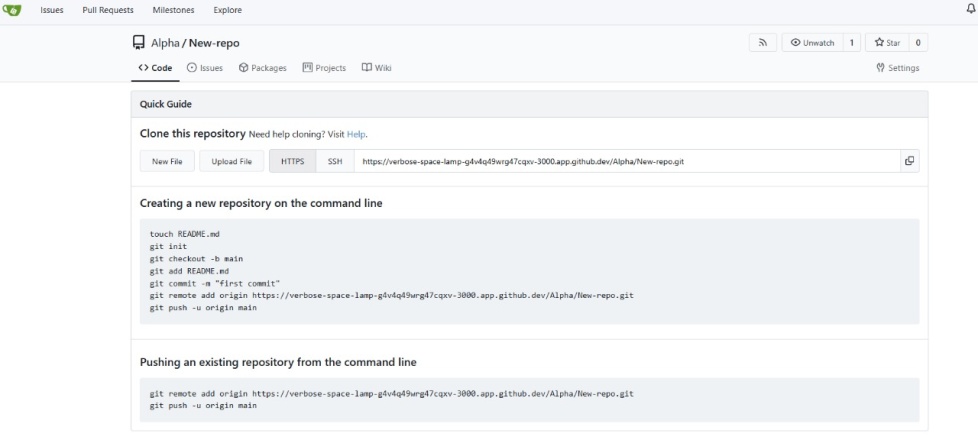
* admin\_setup.png



* gitea\_dashboard.png

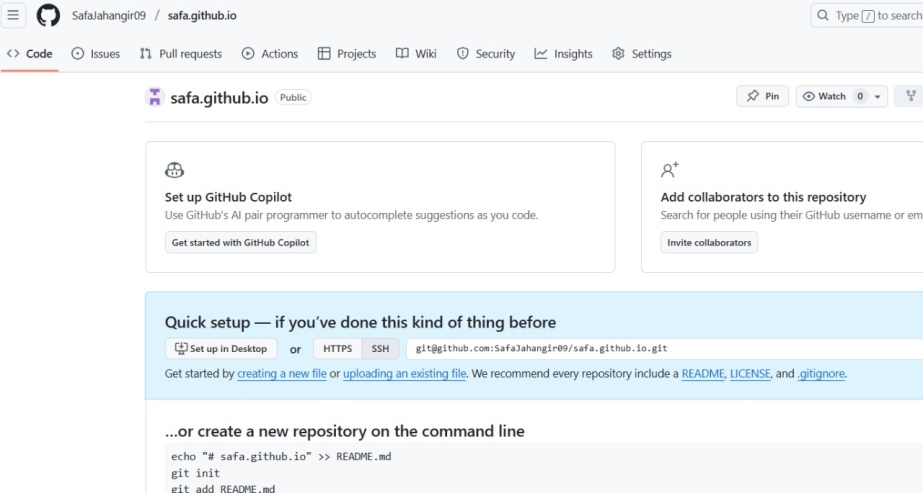


* gitea\_new\_repo.png

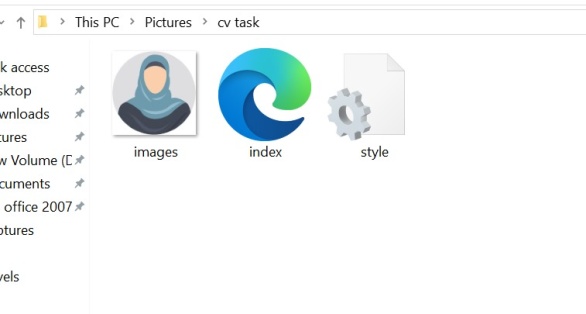


## Task 11 – Creating a GitHub Pages Portfolio Site

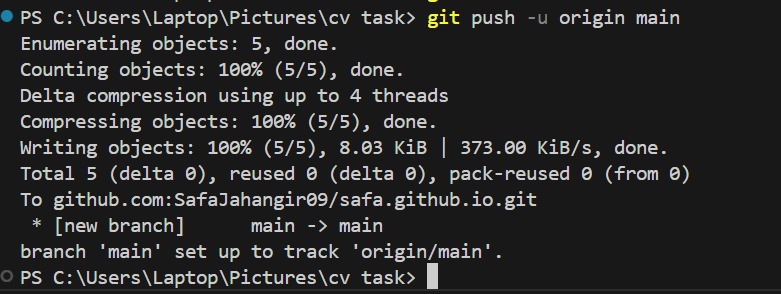
* github\_pages\_repo.png



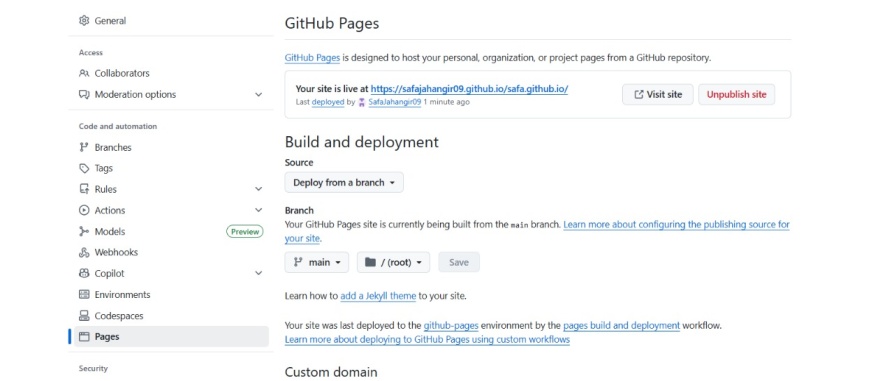
* local\_static\_site.png



* push\_static\_site.png



* github\_pages\_settings.png



* live\_site.png

