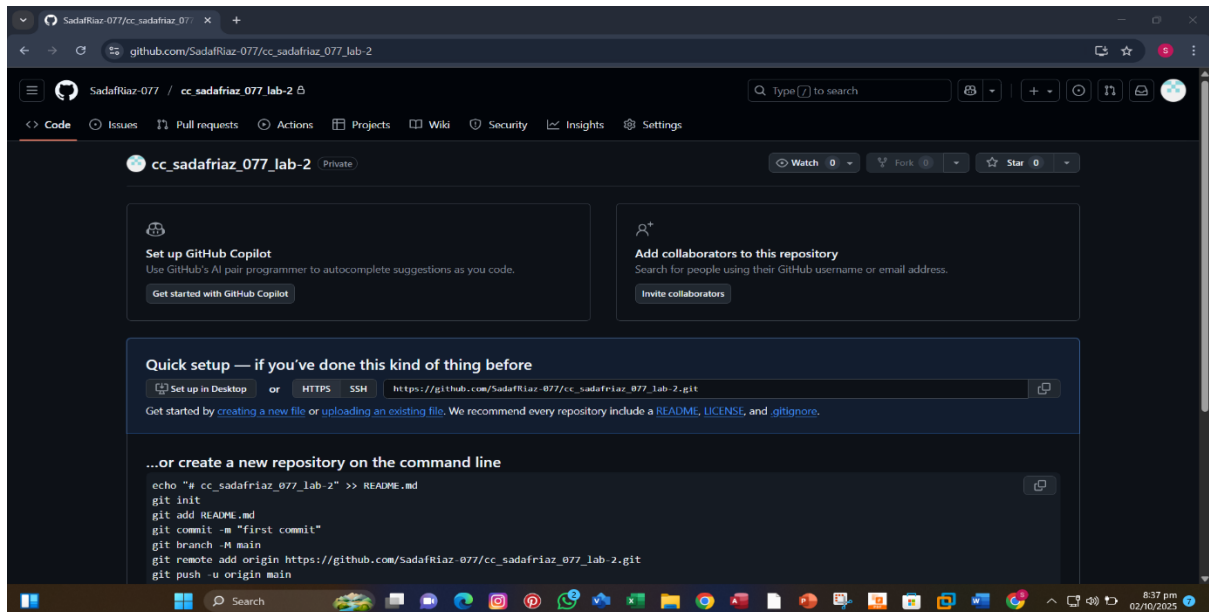


Name: Sadaf Riaz
Roll No: 2023-BSE-077
Class: BSE5-B
Lab# 02

Task 1: Create Private GitHub Repository



Task 2: Connect Repository via SSH

Generate a new SSH key using PowerShell

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ ssh-keygen -t ed25519 -c "sadafriaz184@gmail.com"
bash: ssh-keygen -t: command not found

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ ssh-keygen -t ed25519 -c "23-22412-077@se.fjwu.edu.pk"
bash: ssh-keygen -t: command not found

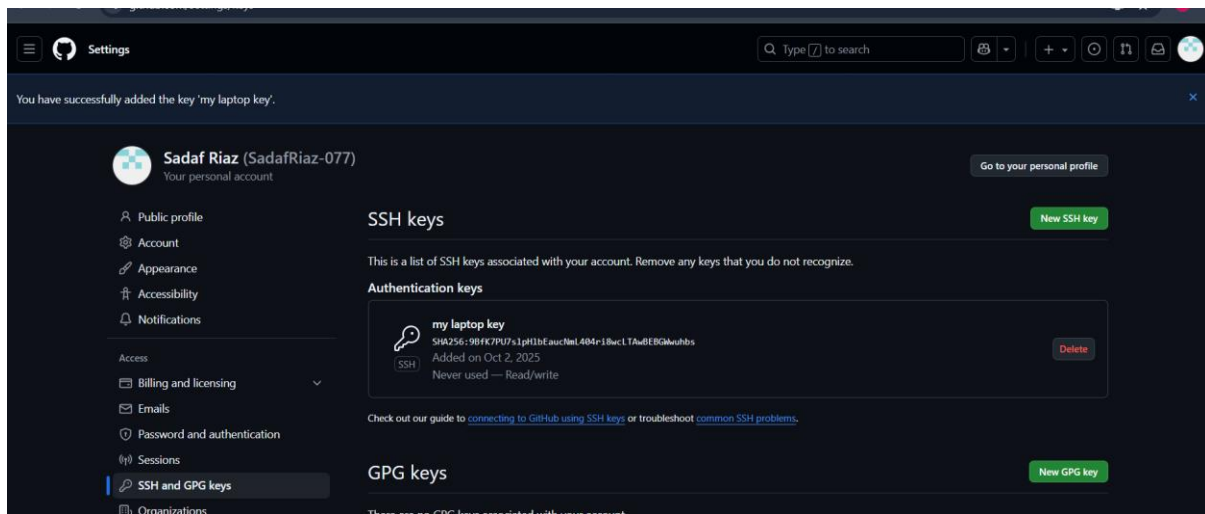
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ AC

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ ssh-keygen -t ed25519 -C "23-22412-077@se.fjwu.edu.pk"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/Lenovo/.ssh/id_ed25519):
Created directory '/c/Users/Lenovo/.ssh'.
Enter passphrase for "/c/Users/Lenovo/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/Lenovo/.ssh/id_ed25519
Your public key has been saved in /c/Users/Lenovo/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:9BfK7PU7slpH1bEaucNmL404ri8wCLTAwBEBGWwuhbs 23-22412-077@se.fjwu.edu.pk
The key's randomart image is:
+--[ED25519 256]--+
|.+=*
|.+- o . . . +
|oo o o .o o.
|o. . + + . . +
|. o S = oB.
|E o . o + o =
|. o .o.ooo
|. .o.o.
|. =+.o..
+----[SHA256]-----+

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$
```

Add your SSH public key to GitHub (Settings > SSH and GPG keys)



Clone your Lab2 repo using SSH

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~  
$ ssh -T git@github.com  
The authenticity of host 'github.com (20.207.73.82)' can't be established.  
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.  
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':  
Hi SadafRiaz-077! You've successfully authenticated, but GitHub does not provide shell access.  
  
Lenovo@DESKTOP-MTNDM3D MINGW64 ~  
$ cd ~ # or any folder you like  
git clone git@github.com:<yourusername>/Lab2.git  
bash: yourusername: No such file or directory  
  
Lenovo@DESKTOP-MTNDM3D MINGW64 ~  
$ git clone git@github.com:<SadafRiaz-077>/Lab2.git  
bash: SadafRiaz-077: No such file or directory  
  
Lenovo@DESKTOP-MTNDM3D MINGW64 ~  
$ git clone git@github.com:SadafRiaz-077/Lab2.git  
Cloning into 'Lab2'..  
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':  
ERROR: Repository not found.  
fatal: Could not read from remote repository.  
  
Please make sure you have the correct access rights  
and the repository exists.  
  
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
```

Task 3: Configure Git Username and Email

Set up your Git identity (this ensures all commits are linked to you)

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~  
$ git config --global user.name "SadafRiaz-077"  
git config --global user.email "23-22412-077@se.fjwu.edu.pk"  
  
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
```

Verify your configuration:

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=SadaFiaz-077
user.email=23-22412-077@se.fjwu.edu.pk

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
```

Task 4: Explore the .git Folder

Navigate into your cloned repository folder.

Show hidden files and locate the .git directory.

Explore what's inside

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ cd cc_sadafiaz_077_lab-2
bash: cd: cc_sadafiaz_077_lab-2: No such file or directory

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ cd cc_sadafiaz_077_lab-2
bash: cd: cc_sadafiaz_077_lab-2: No such file or directory

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ git clone git@github.com:SadaFiaz-077/cc_sadafiaz_077_lab-2.git
Cloning into 'cc_sadafiaz_077_lab-2'...
Enter passphrase for key 'C:/Users/Lenovo/.ssh/id_ed25519':
warning: You appear to have cloned an empty repository.

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ ls -a
./
.gitconfig
.lesshst
.packetracer
.ssh/
AppData/
'Application Data'@
Contacts/
Cookies@
Documents/
Downloads/
Favorites/
Links/
'Local Settings'@
Music/
'My Documents'@
NTUSER.DAT
NTUSER.DAT{3babe68d-68a3-11ee-900c-edf61de30039}.TM.b1f
NTUSER.DAT{3babe68d-68a3-11ee-900c-edf61de30039}.TMCContainer000000000000000001.regtrans-ms
NTUSER.DAT{3babe68d-68a3-11ee-900c-edf61de30039}.TMCContainer000000000000000002.regtrans-ms
OneDrive/
'OneDrive - Personal'/
PrintHood@
Recent@
Searches/
SendTo@
'Start Menu'@
Templates@
Videos/
cc_sadafiaz_077_lab-2/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ ls -a .git
ls: cannot access '.git': No such file or directory

Lenovo@DESKTOP-MTNDM3D MINGW64 ~
$ cd cc_sadafiaz_077_lab-2

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafiaz_077_lab-2 (main)
$ ls -a
./
../
.git/

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafiaz_077_lab-2 (main)
$ ls -a .git
./
../
HEAD
config
description
hooks/
info/
objects/
refs/

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafiaz_077_lab-2 (main)
$
```

Task 5: Local Repository Management

1. Delete the existing .git folder from cloned repo using Git Bash

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ rm -rf .git
ls -a # confirm .git is gone
./ ../
```

2. Re-initialize the local git repository

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2
$ git init
git branch -M main
Initialized empty Git repository in C:/Users/Lenovo/cc_sadafriaz_077_lab-2/.git/
```

3. Add a file named README.md and commit

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ ^[[200~echo "# Lab2 Git Practice" > README.md
bash: $'\E[200~echo': command not found

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git add README.md

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git commit -m "Initial commit"
[main (root-commit) 0bdcfd2] Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ echo "# cc_sadafriaz_077_lab-2Practice" > README.md
git add README.md
git commit -m "Initial commit"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
[main c151d16] Initial commit
1 file changed, 1 insertion(+)
```

4. Connect your local repo to GitHub and push

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git remote add origin git@github.com:<SadafRiaz-077>/cc_sadafriaz_077_lab-2
git push -u origin main
bash: SadafRiaz-077: No such file or directory
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':
ERROR: Repository not found.
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ |
```

Task 6: File Status & Staging

1. Create a new file notes.txt and write a note.
2. Check status
3. Stage and commit

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notes.txt

nothing added to commit but untracked files present (use "git add" to track)

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ echo "My first note" > notes.txt
git status
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notes.txt

nothing added to commit but untracked files present (use "git add" to track)

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ echo "I updated my note" >> notes.txt
git status
git add notes.txt
git commit -m "Update notes.txt"
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notes.txt

nothing added to commit but untracked files present (use "git add" to track)
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the next time Git touches it
[main a5c8714] Update notes.txt
 1 file changed, 2 insertions(+)
 create mode 100644 notes.txt
```

4. Edit notes.txt and repeat status/commit steps.

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git add notes.txt
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the next time Git touches it

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ AC

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git commit -m "Update notes.txt with new content"
[main 9e17fa7] Update notes.txt with new content
 1 file changed, 1 insertion(+), 2 deletions(-)

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git status
On branch main
nothing to commit, working tree clean
```

Task 7: Branch Creation Using GitHub GUI

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (bugfix/user-auth-error)
$ git branch -a
* bugfix/user-auth-error
  main
  remotes/origin/bugfix/user-auth-error
```

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git pull origin bugfix/user-auth-error
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':
ERROR: Repository not found.
fatal: Could not read from remote repository.
```

Please make sure you have the correct access rights
and the repository exists.

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git status
On branch main
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:   notes.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git status
On branch main
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:   notes.txt
```

no changes added to commit (use "git add" and/or "git commit -a")

Task 8: Branch Creation and Push Using Git Bash

Create a branch named feature/db-connection using Git Bash

Push the branch to the remote repository

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git checkout -b feature/db-connection
fatal: a branch named 'feature/db-connection' already exists
```

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git push origin feature/db-connection
Everything up-to-date
```

Task 9: Branching & Merging

1-Create and switch to a branch feature-1:

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git checkout -b feature-1
Switched to a new branch 'feature-1'

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature-1)
```

2-Modify main.py (add a function) and commit

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature-1)
$ git add main.py
git commit -m "Add new function to main.py"
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next time Git touches it
[feature-1 e577eb9] Add new function to main.py
1 file changed, 1 insertion(+)
create mode 100644 main.py
```

3.Switch back to main and merge

```
create mode 100644 main.py

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature-1)
$ git checkout main
Switched to branch 'main'

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git merge feature-1
Updating 9e17fa7..e577eb9
Fast-forward
 main.py | 1 +
1 file changed, 1 insertion(+)
create mode 100644 main.py
```

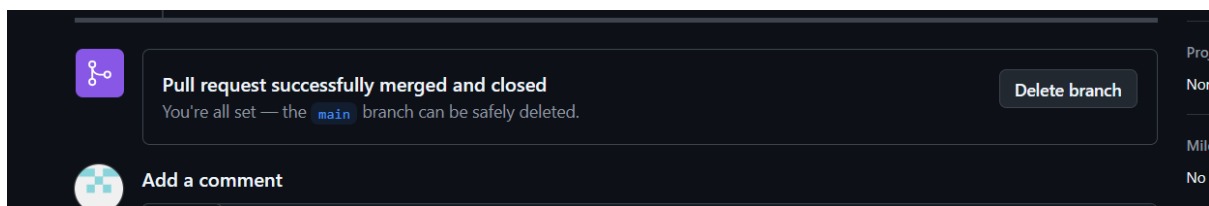
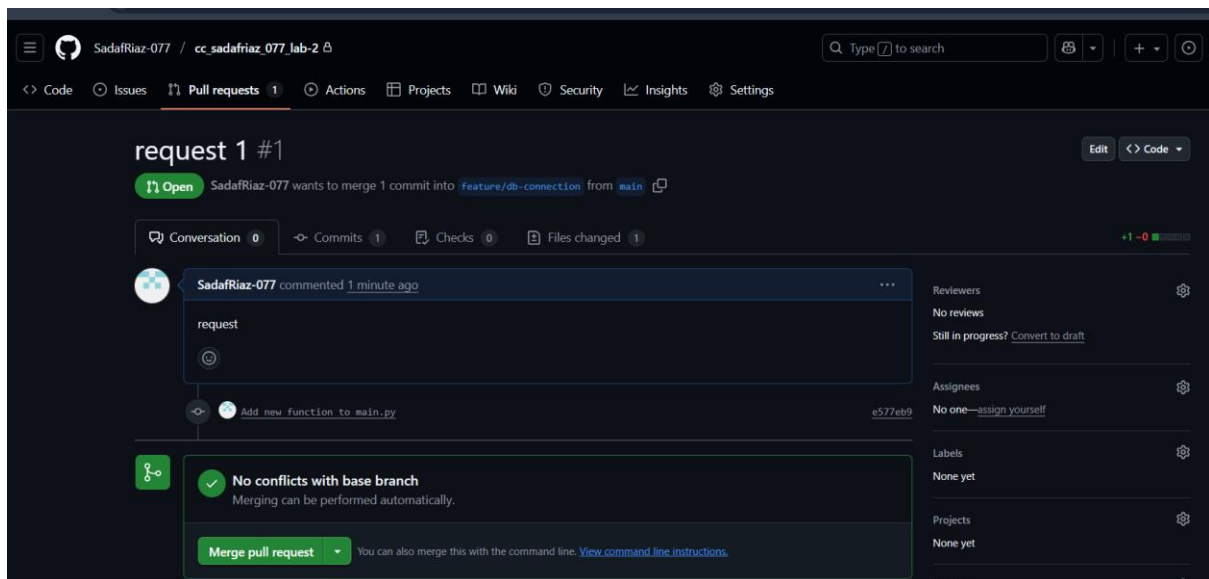
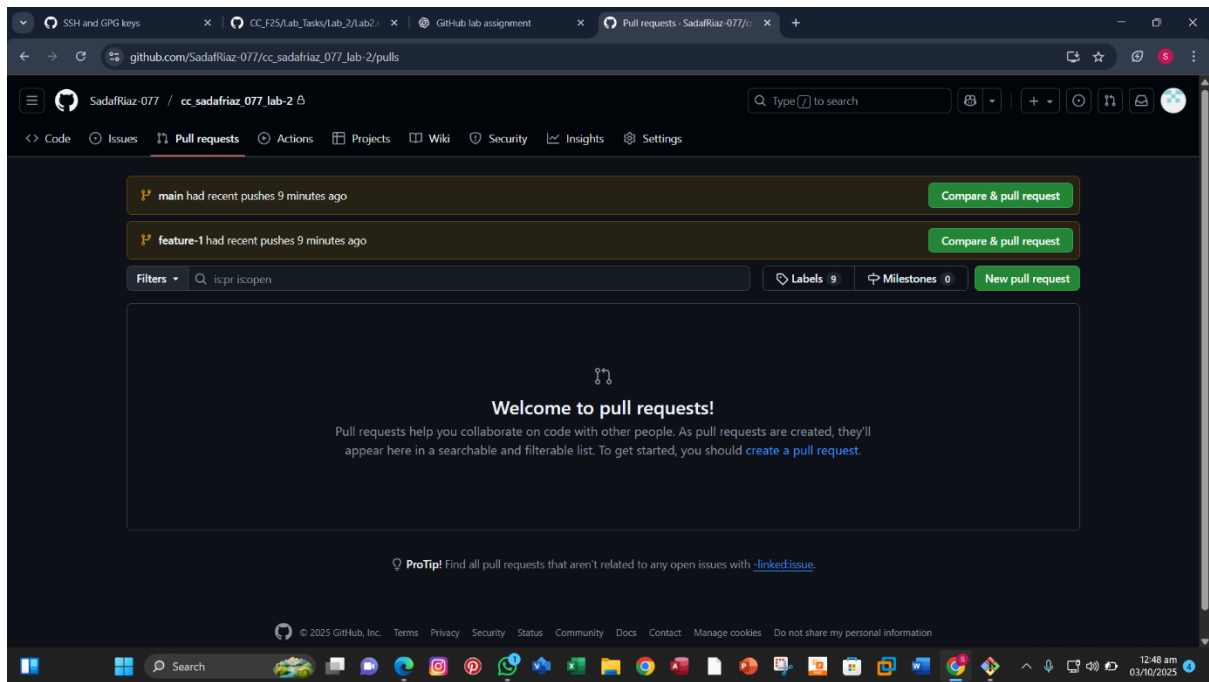
4.Push all branches

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git push origin main
git push origin feature-1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 384 bytes | 192.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'main' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/main
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      main -> main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature-1' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/feature-1
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      feature-1 -> feature-1

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$
```

Task 10: Pull Request and Branch Review (GitHub GUI)

1. On GitHub, create a Pull Request from the branch feature/db-connection to main.
2. Review the Pull Request and merge it using the GitHub GUI.
- 3.After merging, delete the feature/db-connection branch using the GitHub GUI



Task 11: Detailed Branch Strategy (Develop/Staging)

1. Create the following branches to simulate a professional branching strategy:

- develop
- staging
- feature/*
- bugfix/*

2. Example workflow:

- Developers work on feature/* and bugfix/* branches.
- Merge into develop after completion.
- develop is merged into staging for testing.
- Finally, staging is merged into main (production).

3. Document the workflow with screenshots:

- Branch list (branch_strategy.png)
- Merges into develop and staging (branch_merges.png)
- Final merge into main (final_merge.png)

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git checkout -b feature/user-login
git push origin feature/user-login

git checkout -b bugfix/login-error
git push origin bugfix/login-error
Switched to a new branch 'feature/user-login'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/user-login' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/feature/user-login
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      feature/user-login -> feature/user-login
Switched to a new branch 'bugfix/login-error'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'bugfix/login-error' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/bugfix/login-error
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      bugfix/login-error -> bugfix/login-error

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (bugfix/login-error)
$ git checkout bugfix/login-error
# fix bug
git add .
git commit -m "Fix login error bug"
git push origin bugfix/login-error
Already on 'bugfix/login-error'
On branch bugfix/login-error
nothing to commit, working tree clean
Everything up-to-date

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (bugfix/login-error)
$ git checkout develop
git pull origin develop
git merge feature/user-login
git merge bugfix/login-error
git push origin develop
Switched to branch 'develop'
From github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2
 * branch      develop    -> FETCH_HEAD
Already up to date.
Already up to date.
Already up to date.
Everything up-to-date
```

```

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (staging)
$ git checkout main
git pull origin main
git merge staging
git push origin main
Switched to branch 'main'
fatal: couldn't find remote ref main
Already up to date.
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'main' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/main
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      main -> main

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git push origin --delete feature/user-login
git push origin --delete bugfix/login-error
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
- [deleted]          feature/user-login
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
- [deleted]          bugfix/login-error

```

Bonus Task: Simulated Team Collaboration

```

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ main + collab branch + multiple collaborators
bash: main: command not found

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git checkout main
git pull origin main
git checkout -b collab
git push origin collab
Already on 'main'
From github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2
 * branch      main      -> FETCH_HEAD
Already up to date.
Switched to a new branch 'collab'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'collab' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/collab
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      collab -> collab

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (collab)
$ git checkout collab
git pull origin collab
Already on 'collab'
From github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2
 * branch      collab    -> FETCH_HEAD
Already up to date.

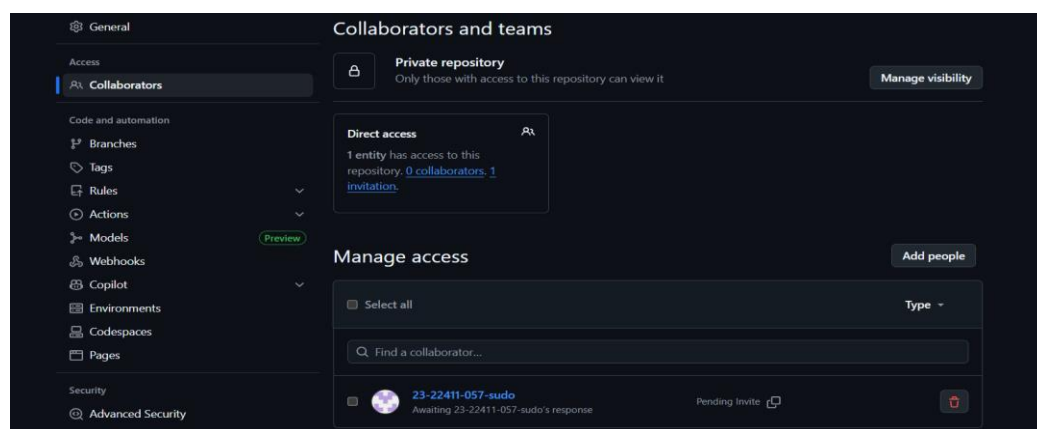
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (collab)
$ echo "Name: Your Name, Fun Fact: I love coding!" >> notes.txt
git add notes.txt
git commit -m "Add my name and fun fact"
git push origin collab
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the next time Git touches it
[collab a9baa2f] Add my name and fun fact
 1 file changed, 1 insertion(+)
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 328 bytes | 328.00 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:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 e577eb9..a9baa2f  collab -> collab

```

```

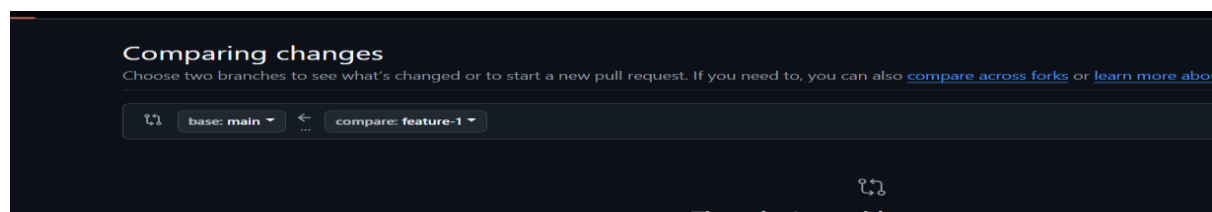
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (collab)
$ git checkout main
git pull origin main
git merge collab
git push origin main
Switched to branch 'main'
From github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2
 * branch          main          -> FETCH_HEAD
Already up to date.
Updating e577eb9..a9baa2f
Fast-forward
 notes.txt | 1 +
 1 file changed, 1 insertion(+)
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 e577eb9..a9baa2f  main -> main

```

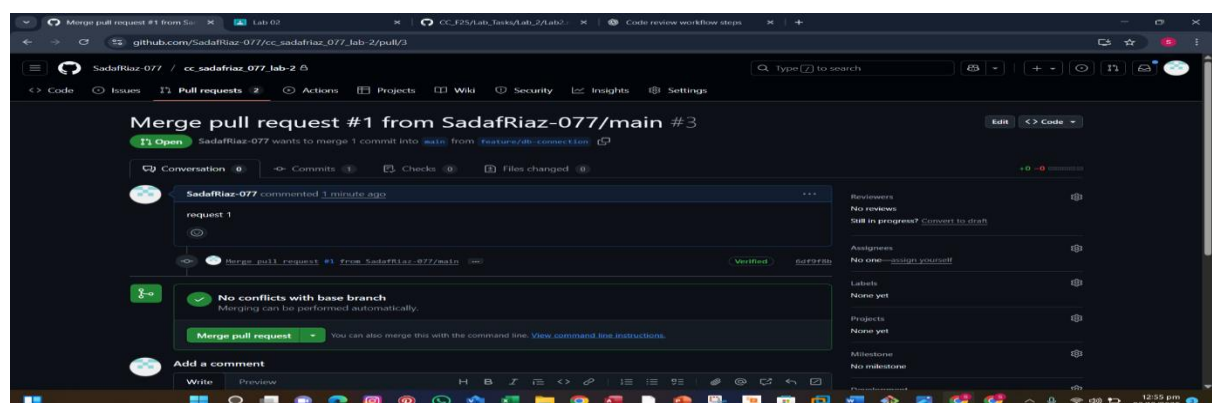


Task 12: Code Review Workflow

Create a Pull Request (PR) / Merge Request (MR):

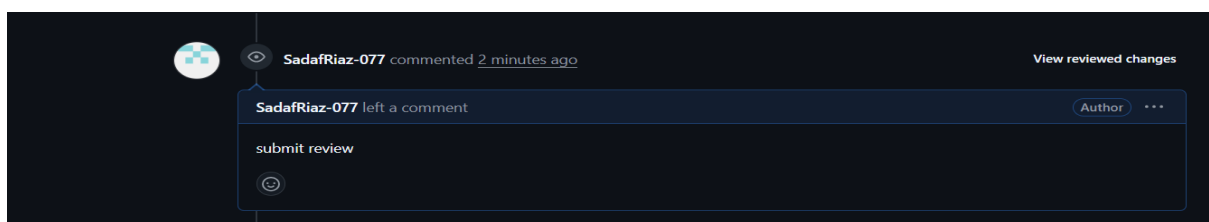
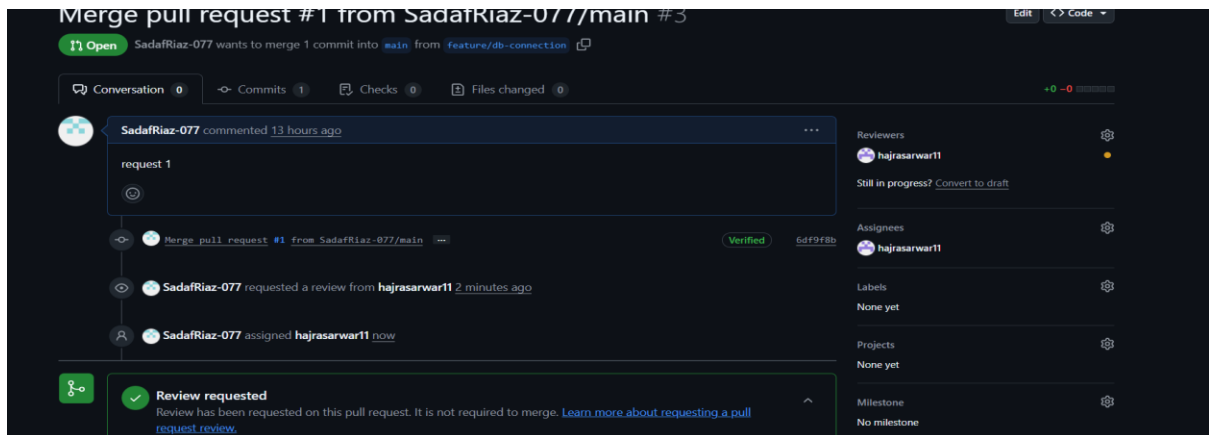


Assign a reviewer (teammate or second account).



1. Reviewer Actions (capture screenshots for each):

- Approve the PR
- Request changes and add comments



Author Actions:

- Fix issues in the same branch and push new commits.
- PR updates automatically.
- Screenshot updated PR with new commits

```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ feature/db-connection
bash: feature/db-connection: No such file or directory

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git checkout feature/db-connection
Switched to branch 'feature/db-connection'
Your branch is up to date with 'origin/feature/db-connection'.

Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git add .

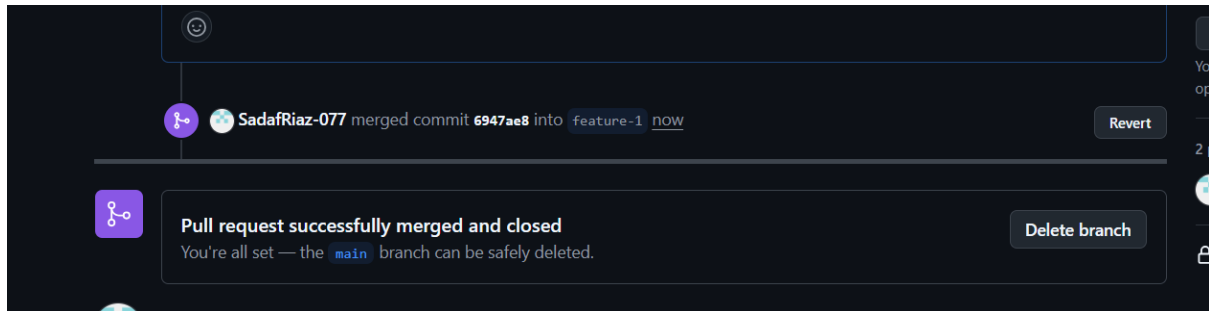
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git commit -m "Fixed review comments"
On branch feature/db-connection
Your branch is up to date with 'origin/feature/db-connection'.

nothing to commit, working tree clean

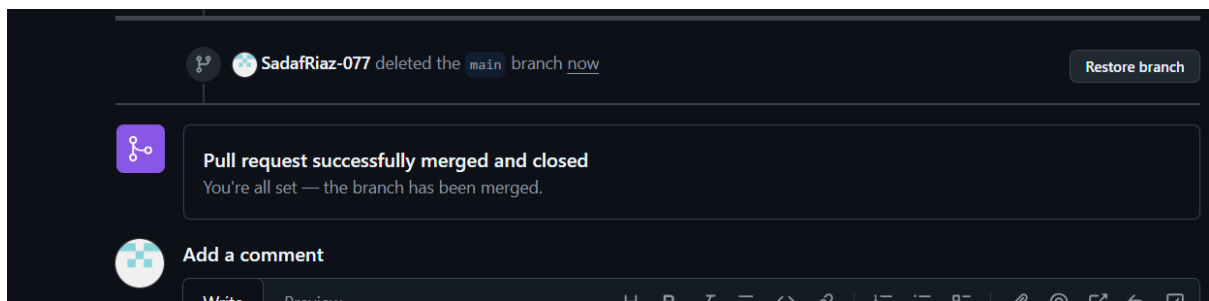
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (feature/db-connection)
$ git push origin feature/db-connection
Enter passphrase for key '/c/Users/Lenovo/.ssh/id_ed25519':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/db-connection' on GitHub by visiting:
remote:   https://github.com/SadafRiaz-077/cc_sadafriaz_077_lab-2/pull/new/feature/db-connection
remote:
To github.com:SadafRiaz-077/cc_sadafriaz_077_lab-2.git
 * [new branch]      feature/db-connection -> feature/db-connection
```

Merge the PR:

Reviewer approves → merge using GitHub/GitLab UI.



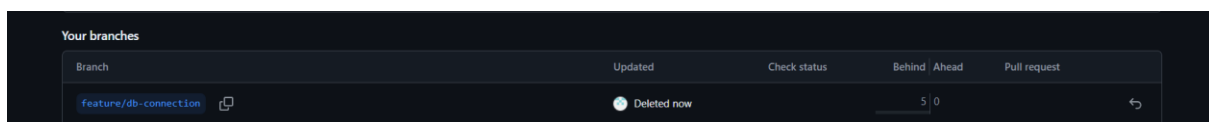
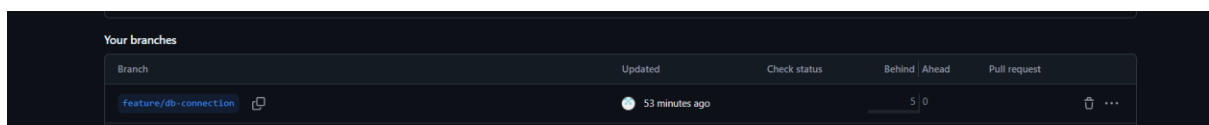
Branch Handling After Merge:



Task 13

Delete Remote Branch After Merge

Update Local Repository:



```
Lenovo@DESKTOP-MTNDM3D MINGW64 ~/cc_sadafriaz_077_lab-2 (main)
$ git branch -d bugfix/user-auth-error
Deleted branch bugfix/user-auth-error (was 9e17fa7).
```