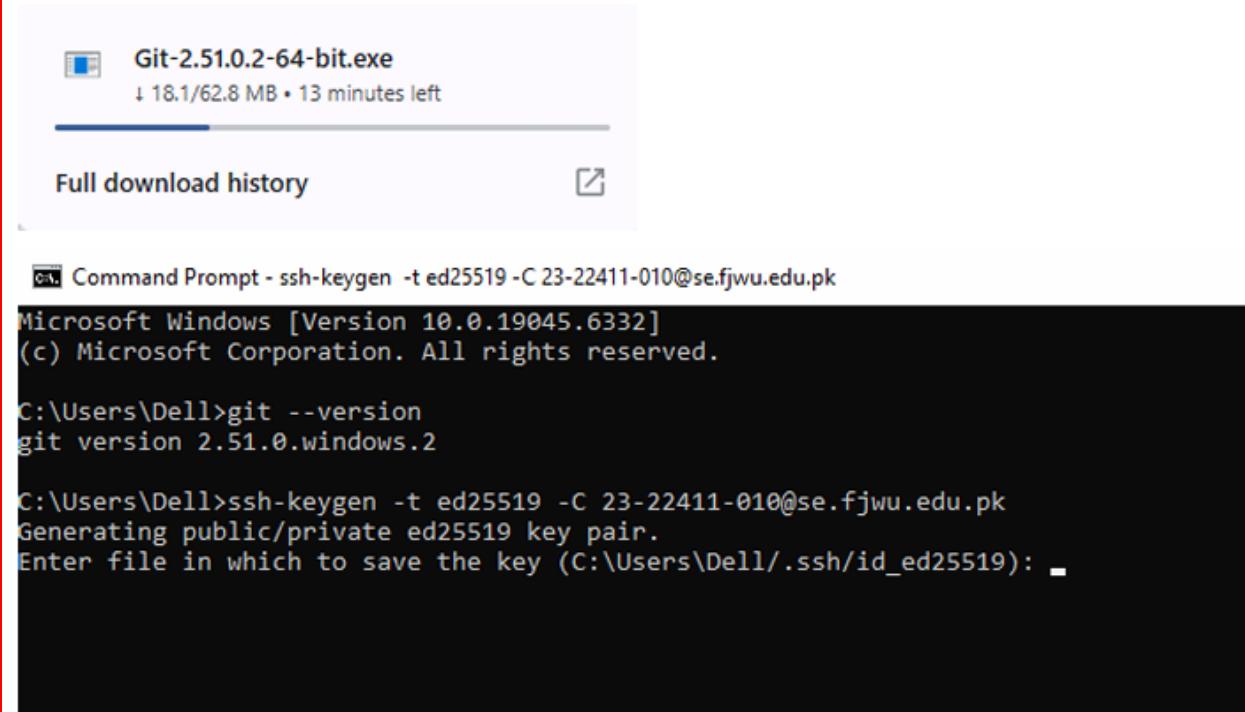


# Cloud computing

## Lab 2

Arshia Jadoon  
Bse-2023-014

### Git\_installation.png



### Task 1:

repo\_private.png

### Repository default branch

Choose the default branch for your new personal repositories. You might want to change the default name due to different workflows, or because your integrations still require "master" as the default branch name. You can always change the default branch name on individual repositories. [Learn more about default branches.](#)

main

Update

### Repositories

Repositories Deleted repositories

arshiajadoon

arshiajadoon/lab-2 0 Bytes 0 collaborators

### Task 2:

Ssh\_keygen.png

ssh\_clone.png

```
MINGW64:/c/Users/hp
hp@DESKTOP-44CCB99 MINGW64 ~
$ ssh-keygen -t ed25519 -C "arshiajadoon1@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/hp/.ssh/id_ed25519):
```

```
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIAxVffdgxvhKedMpxRve21SvK6bOqLmV6YV1iA+aFgzW
arshiajadoon1@gmail.com

hp@DESKTOP-44CCB99 MINGW64 ~ (master)
```

## SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

### Authentication keys



hp830

SHA256:kMnZm9j+45DGeXC9G4104LhMgruIBV559bG0ahJ+KwK

SSH

Added on Oct 11, 2025  
Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

## Task 3:

Git\_identity.png

git\_config\_list.png

git\_config\_list.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
$ 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=arshiajadoon
user.email=arshiajadoon1@gmail.com
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true
```

## Task 4

git\_folder.png.

```
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
$ ls -a .git
./ COMMIT_EDITMSG config hooks/ info/ objects/
../ HEAD description index logs/ refs/
```

## Task 5

Delete\_git.png

Git\_init.png

first\_commit.png

```
hp@DESKTOP-44CCB99 MINGW64 ~
$ git init
Initialized empty Git repository in C:/Users/hp/.git/
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
```

## Task 5

first\_push.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
$ echo "# Lab2 Git Practice" > 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
[master (root-commit) 1b46afb] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

## Task 6

status1.png.

```
hp@DESKTOP-44CCB99 MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .dotnet/
    .gitconfig
    .idlerc/
    .lessht
    .node_repl_history
    .packettracer
    .ssh/
    .templateengine/
    .vscode/
    3D Objects/
    AppData/
    Cisco Packet Tracer 8.2.2/
    Contacts/
    Creative Cloud Files karshu792@gmail.com A4F51E60669698F50A495C6C@Adobe
ID/
    Desktop/
    Documents/
    Downloads/
    Favorites/
    IntelGraphicsProfiles/
    Links/
    Music/
    NTUSER.DAT
    NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.0.regtrans-ms
    NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.1.regtrans-ms
    NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.2.regtrans-ms
    NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.blf
    NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TM.blf
    NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TMContainer000000000000
00000001.regtrans-ms
    NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TMContainer000000000000
00000002.regtrans-ms
    OneDrive/
    Oracle/
    Pictures/
    PycharmProjects/
    Saved Games/
    Searches/
    Videos/
    WPS Cloud Files/
    dd
```

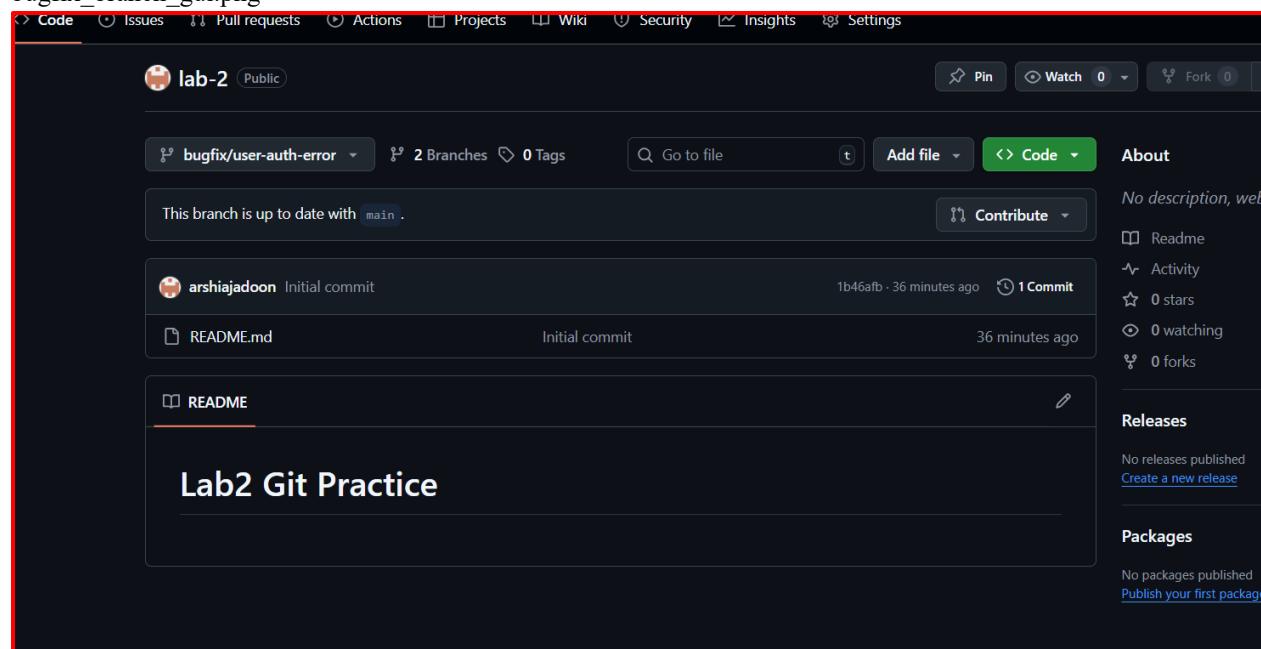
## Task 6

commit\_notes.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git add notes.txt
git commit -m "Add notes.txt"
fatal: pathspec 'notes.txt' did not match any files
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch main
Your branch is up to date with 'origin/main'.
```

## Task 7

bugfix\_branch\_gui.png



bugfix\_branch\_local.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git pull origin bugfix/user-auth-error
From github.com:arshiajadoon/lab-2
 * branch          bugfix/user-auth-error -> FETCH_HEAD
 * [new branch]    bugfix/user-auth-error -> origin/bugfix/user-auth-error
Auto packing the repository for optimum performance.
See "git help gc" for manual housekeeping.
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Checking connectivity: 13327, done.
warning: There are too many unreachable loose objects; run 'git prune' to remove them.
Already up to date.
```

## Task 8

feature\_db\_branch.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git checkout -b feature/db-connection
Switched to a new branch 'feature/db-connection'
```

```
hp@DESKTOP-44CCB99 MINGW64 ~ (feature/db-connection)
$ git push origin feature/db-connection
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/arshiajadoon/lab-2/pull/new/feature/db-connection
remote:
To github.com:arshiajadoon/lab-2.git
 * [new branch]    feature/db-connection -> feature/db-connection

hp@DESKTOP-44CCB99 MINGW64 ~ (feature/db-connection)
$ |
```

## Task 9

branch\_create.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (feature/db-connection)
$ git checkout -b feature-1
Switched to a new branch 'feature-1'

hp@DESKTOP-44CCB99 MINGW64 ~ (feature-1)
```

Feature\_commit.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (feature-1)
$ git add main.py
git commit -m "Add new function to main.py"
fatal: pathspec 'main.py' did not match any files
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch feature-1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    .dotnet/
    .gitconfig
    .idlerc/
    .lessht
    .node_repl_history
    .packettracer
    .ssh/
    .templateengine/
    .vscode/
    3D Objects/
    AppData/
    Cisco Packet Tracer 8.2.2/
    Contacts/
    Creative Cloud Files karshu792@gmail.com A4F51E60669698F50A495C6C@Adobe
ID/
  Desktop/
  Documents/
  Downloads/
  Favorites/
  IntelGraphicsProfiles/
  Links/
  Music/
  NTUSER.DAT
  NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.0.regtrans-ms
  NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.1.regtrans-ms
  NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.2.regtrans-ms
  NTUSER.DAT{3108f612-fd18-11ef-90dc-7cd30a70c343}.TxR.blf
  NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TM.blf
  NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TMContainer000000000000
00000001.regtrans-ms
  NTUSER.DAT{3108f613-fd18-11ef-90dc-7cd30a70c343}.TMContainer000000000000
00000002.regtrans-ms
  OneDrive/
  Oracle/
  Pictures/
  PycharmProjects/
  Saved Games/
  Searches/
  Videos/
  WPS Cloud Files/
```

merge.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (feature-1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git merge feature-1
Already up to date.

hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ |
```

push\_branches.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git push origin main
Everything up-to-date

hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git push origin feature-1
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/arshiajadoon/lab-2/pull/new/feature-1
remote:
To github.com:arshiajadoon/lab-2.git
 * [new branch]      feature-1 -> feature-1
```

## Task 10

(pr\_creation.png)

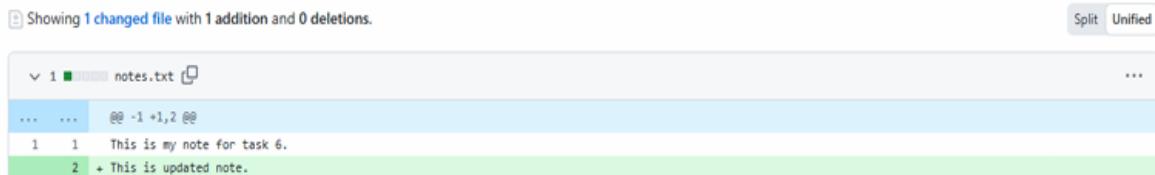
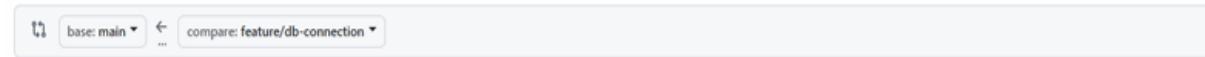
pr\_merge.png)

branch\_delete.png)

Pr\_creation.png  
Pr\_merge.png

### Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or learn more about diff comparisons.



branch\_deletion.png



## Task 11:

final\_merge.png

```
hp@DESKTOP-44CCB99 MINGW64 ~ (feature/db-connection)
$ git push -u origin feature/db-connection
branch 'feature/db-connection' set up to track 'origin/feature/db-connection'.
Everything up-to-date

hp@DESKTOP-44CCB99 MINGW64 ~ (feature/db-connection)
$ git checkout -b develop
Switched to a new branch 'develop'

hp@DESKTOP-44CCB99 MINGW64 ~ (develop)
$ git checkout -b develop
fatal: a branch named 'develop' already exists

hp@DESKTOP-44CCB99 MINGW64 ~ (develop)
$ git push -u origin develop
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:     https://github.com/arshiajadoon/lab-2/pull/new/develop
remote:
To github.com:arshiajadoon/lab-2.git
 * [new branch]      develop -> develop
branch 'develop' set up to track 'origin/develop'.

hp@DESKTOP-44CCB99 MINGW64 ~ (develop)
$ git checkout -b staging
Switched to a new branch 'staging'

hp@DESKTOP-44CCB99 MINGW64 ~ (staging)
$ git push -u origin staging
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'staging' on GitHub by visiting:
remote:     https://github.com/arshiajadoon/lab-2/pull/new/staging
remote:
To github.com:arshiajadoon/lab-2.git
 * [new branch]      staging -> staging
branch 'staging' set up to track 'origin/staging'.

hp@DESKTOP-44CCB99 MINGW64 ~ (staging)
$ git checkout -b feature/new-login
Switched to a new branch 'feature/new-login'

hp@DESKTOP-44CCB99 MINGW64 ~ (feature/new-login)
$ echo "New login feature code" >> Login.txt

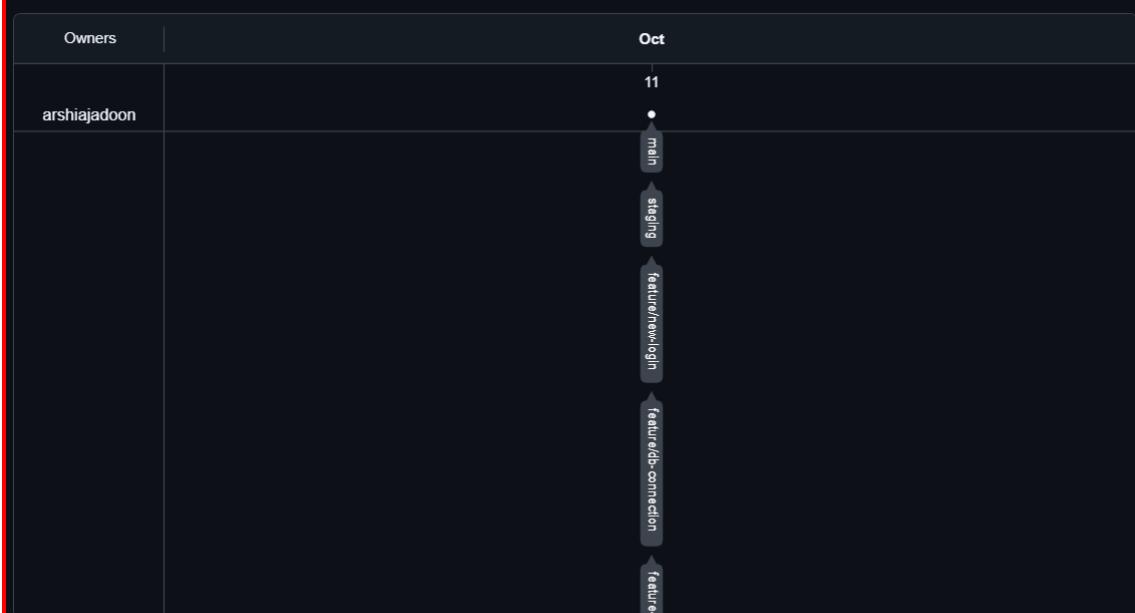
hp@DESKTOP-44CCB99 MINGW64 ~ (feature/new-login)
$
```

Branch strategy.png



Branch merges.png

Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



Keyboard shortcuts available ⓘ

Bonus task : simulated team collaboraton

Colab\_commit.png

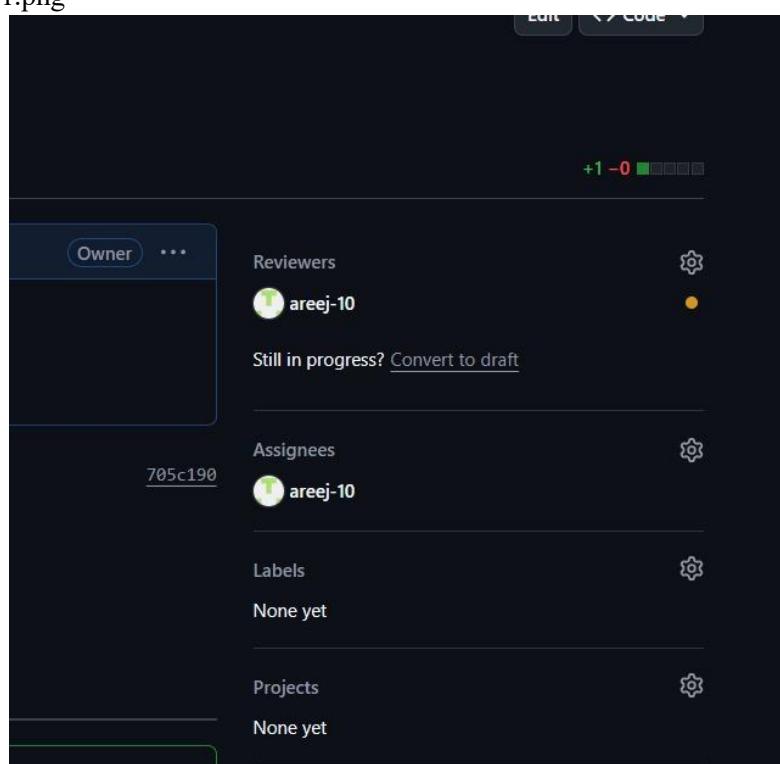
```
Dell@DESKTOP-JNCVEJH MINGW64 ~/lab-2 (master)
$ git checkout -b collab
git push origin collab
Switched to a new branch 'collab'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'collab' on GitHub by visiting:
remote:     https://github.com/areej-10/lab-2/pull/new/collab
remote:
To github.com:areej-10/lab-2.git
 * [new branch]      collab -> collab

Dell@DESKTOP-JNCVEJH MINGW64 ~/lab-2 (collab)
```

Collab\_merge.png

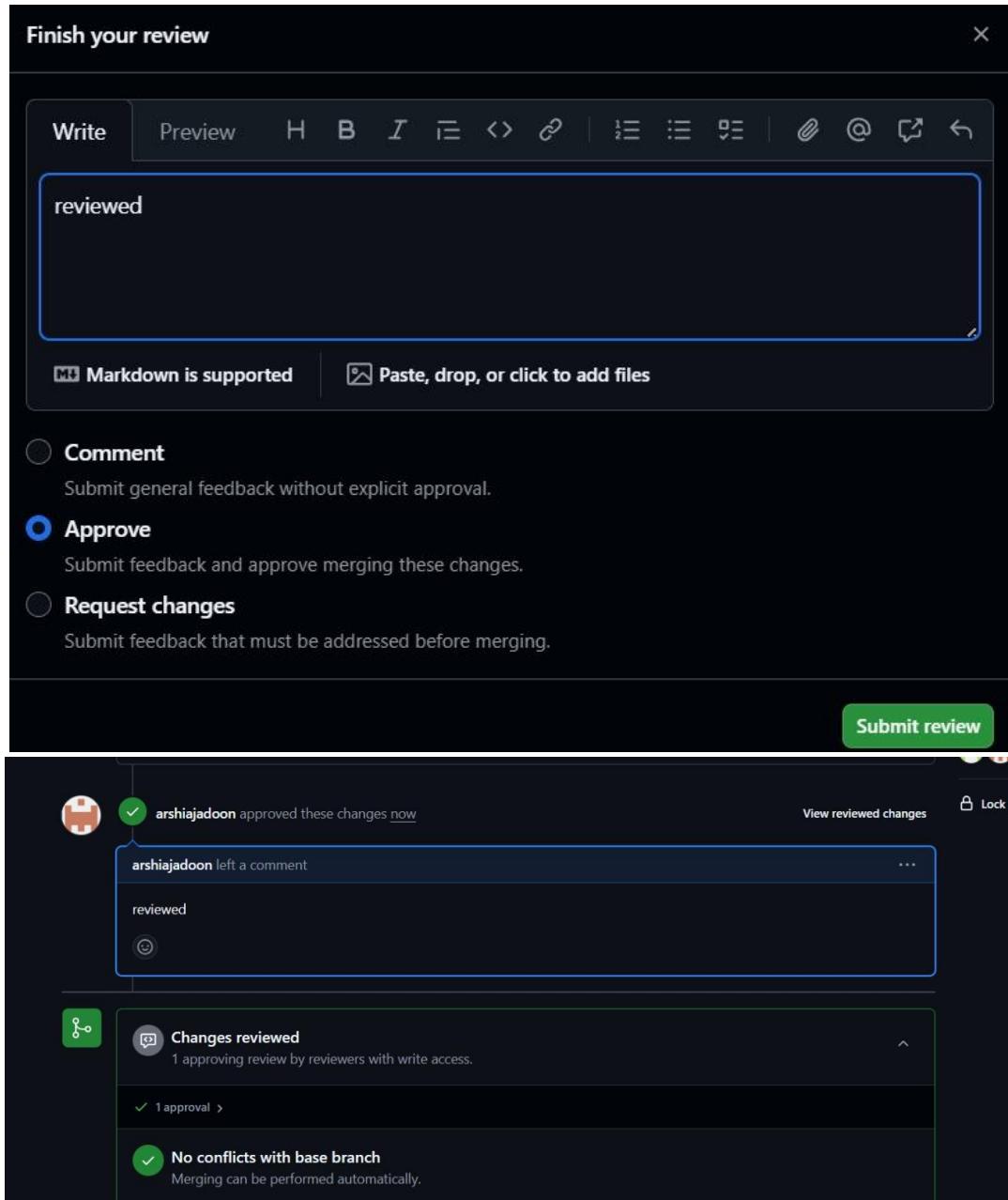
## Task 12

Pr\_create\_details.png

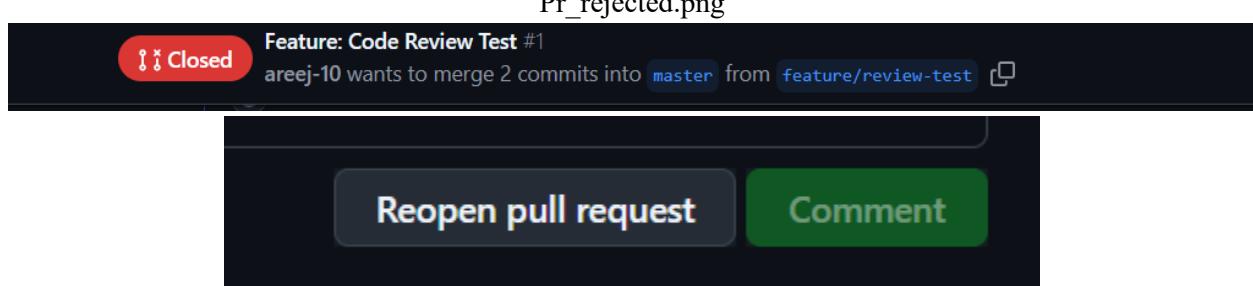
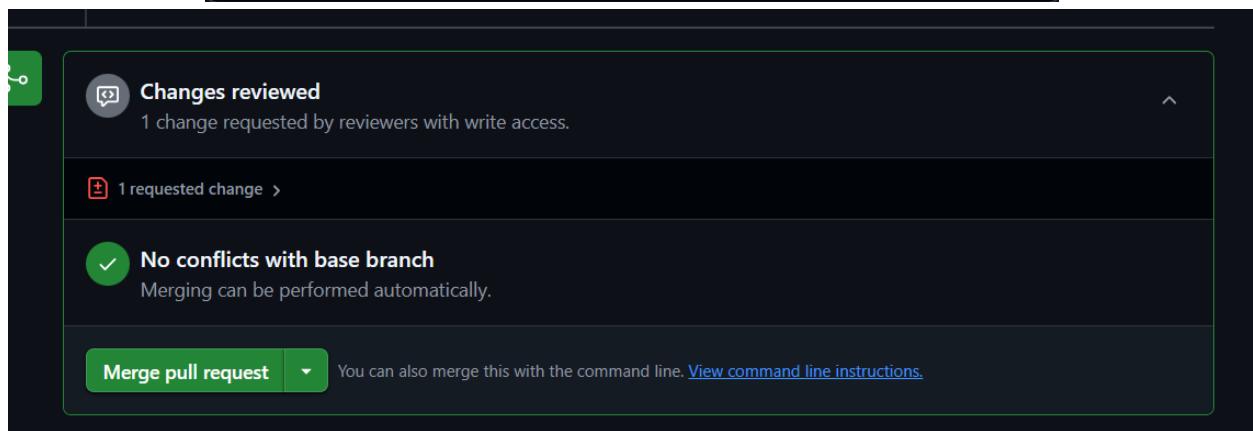
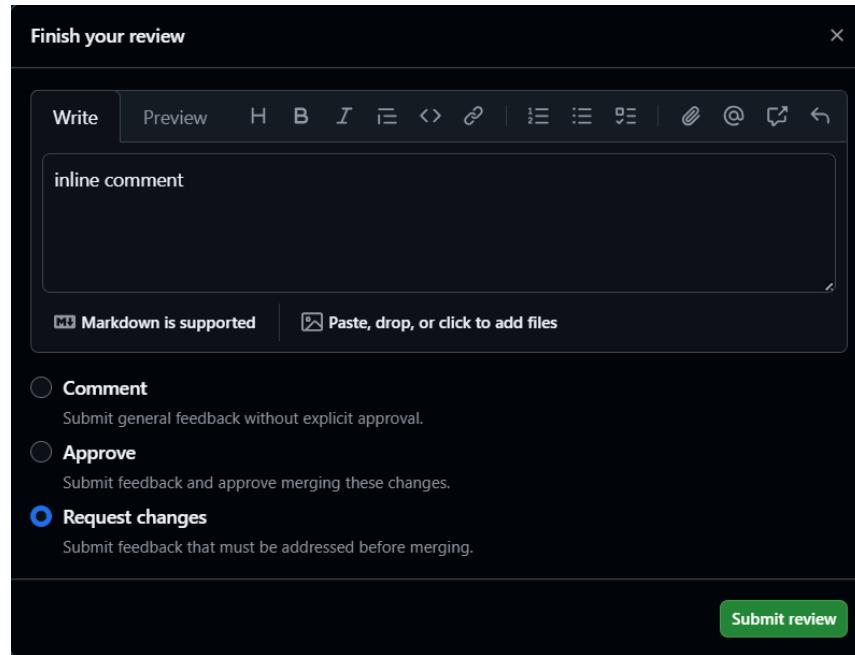


Reviewer Actions (capture screenshots for each):

Pr\_approved.png Pr\_request\_changes.png



## Pr request changes.png



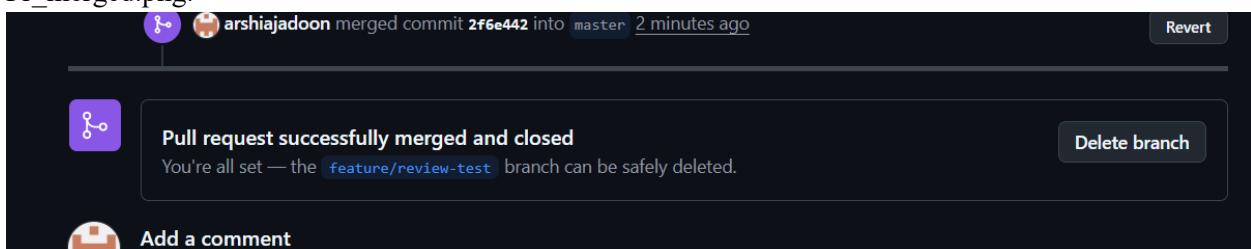
Author Actions:

Pr\_updated\_with\_commits.png

Merge the PR:

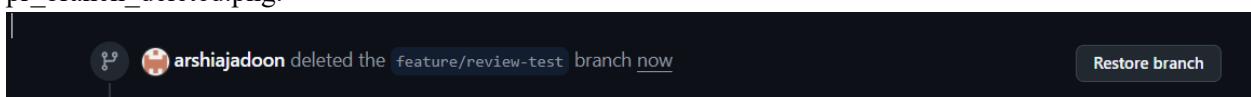
Pr\_merge\_confirm.png.

Pr\_merged.png.



Branch Handling After Merge:

pr\_branch\_deleted.png.



REVIEW\_NOTES.md.

Task 13: Branch Cleanup Best Practices]

Remote\_branch\_delete\_cmd.png

arshiajadoon/lab-2

```
hp@DESKTOP-44CCB99 MINGW64 ~ (main)
$ git checkout main

git pull origin main

git branch -d feature/db-connection

git branch
Already on 'main'
Your branch is up to date with 'origin/main'.
From github.com:arshiajadoon/lab-2
 * branch           main      -> FETCH_HEAD
Auto packing the repository for optimum performance.
See "git help gc" for manual housekeeping.
Nothing new to pack.
Checking connectivity: 13328, done.
warning: There are too many unreachable loose objects; run 'git prune' to remove
them.
Already up to date.
error: branch 'feature/db-connection' not found
collab
develop
feature-1
feature/new-login
* main
staging
```