

LAB 2

NAME: Hajra Sarwar

REG NO: 2023-BSE-022

CLASS: BSE-5A

SUBJECT: CC

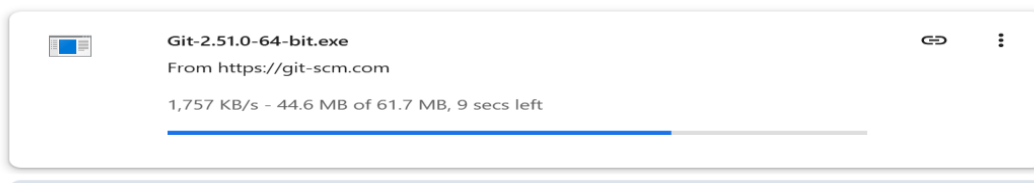
LAB TITLE: Hands-On Git & Version Control Lab


TASK:

1. Install Git on your PC.

You can download this from: [Download Git for Windows, Mac, or Linux](#)

Today



 Git 2.51.0 Setup

Information

Please read the following important information before continuing.



When you are ready to continue with Setup, click Next.

GNU General Public License

Version 2, June 1991

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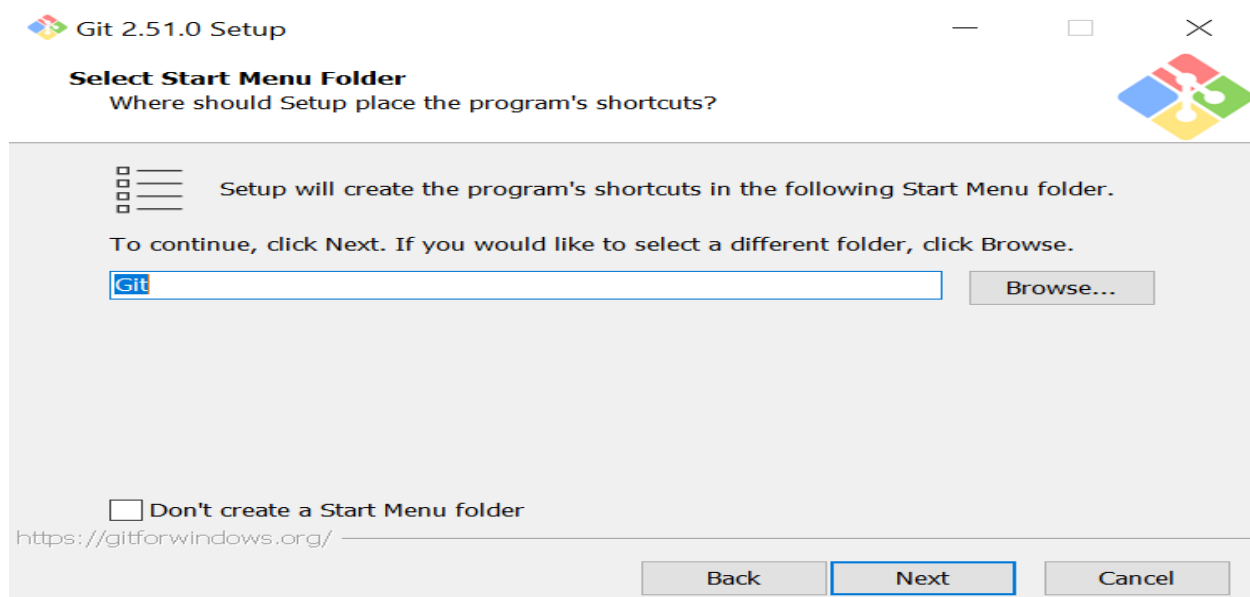
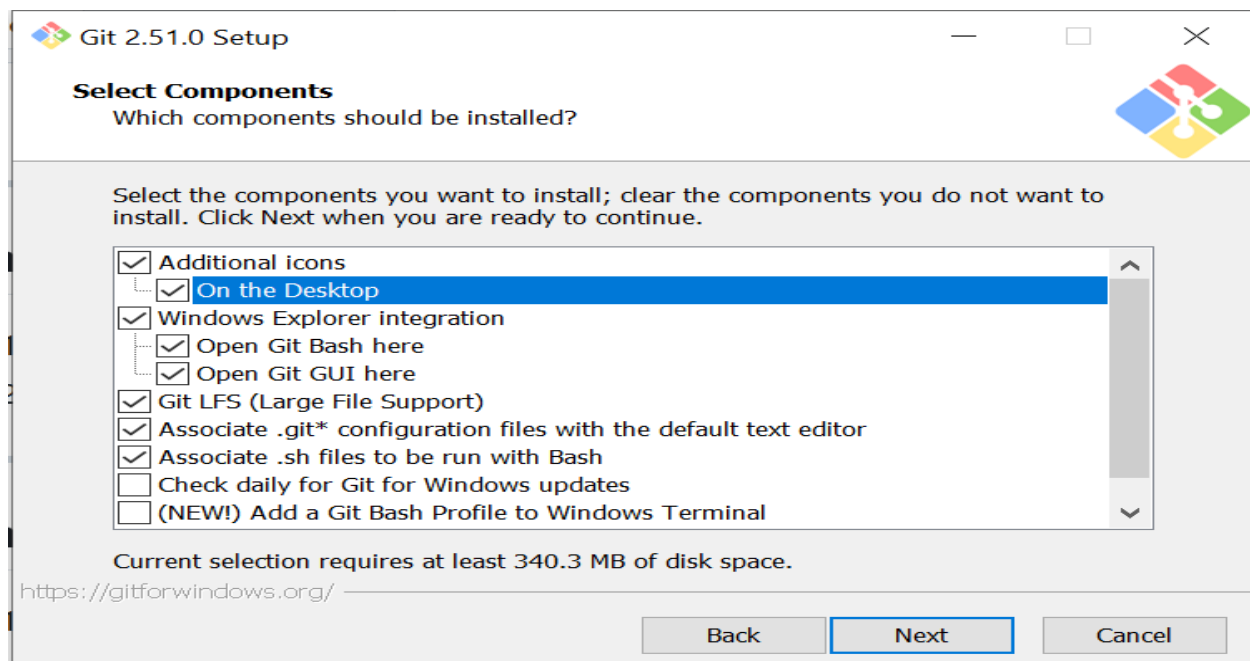
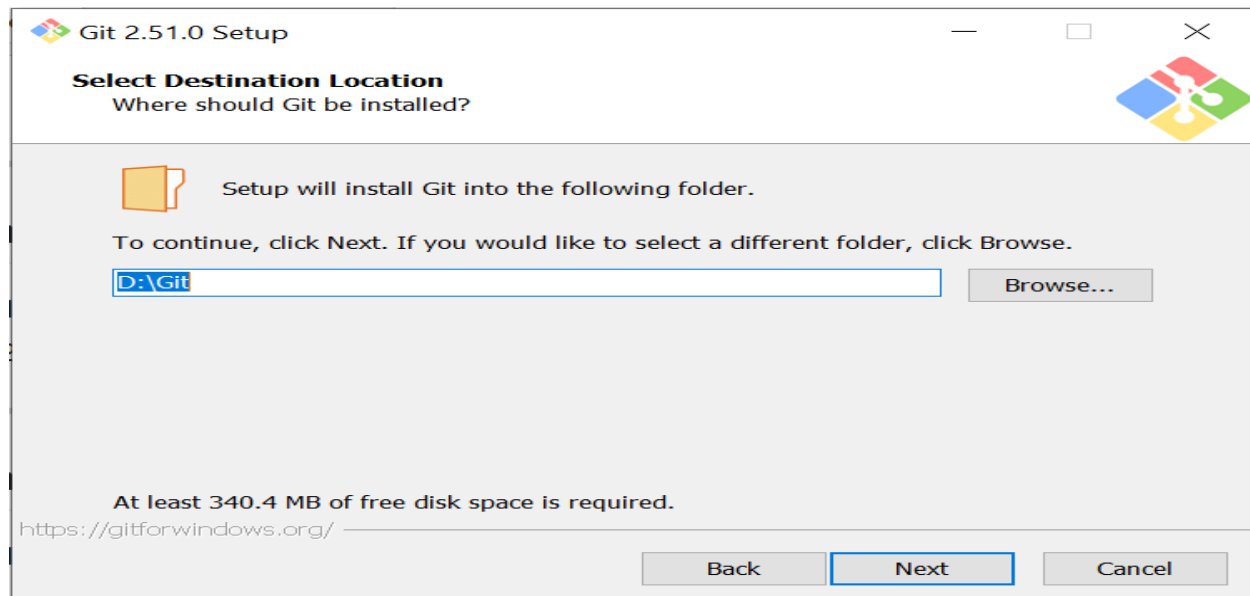
Preamble

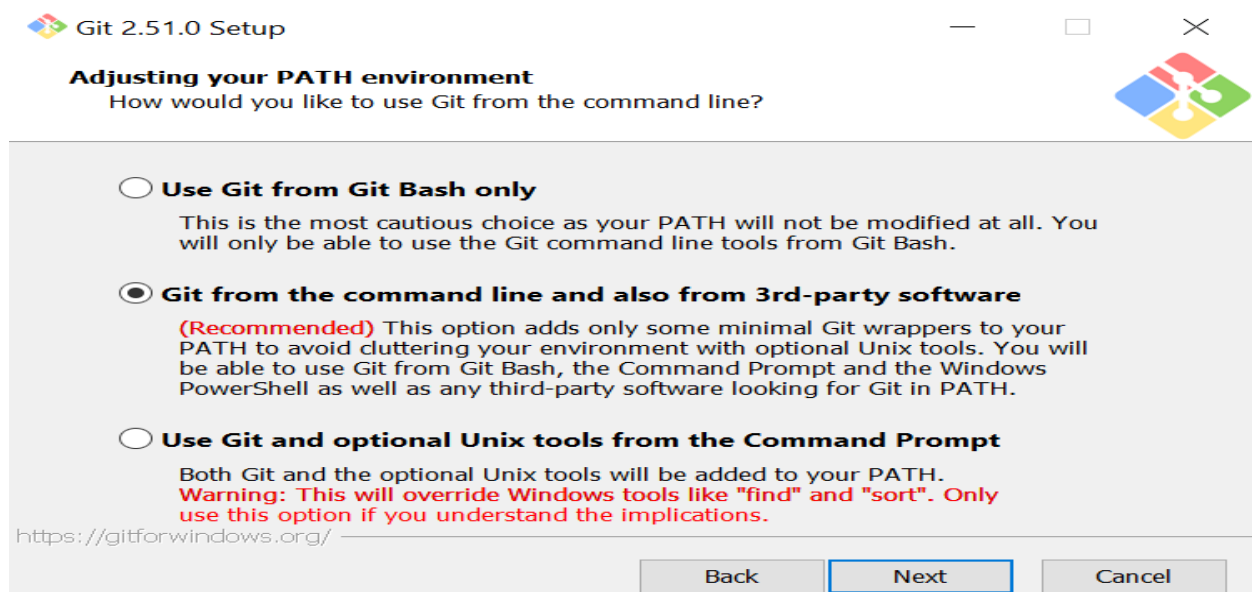
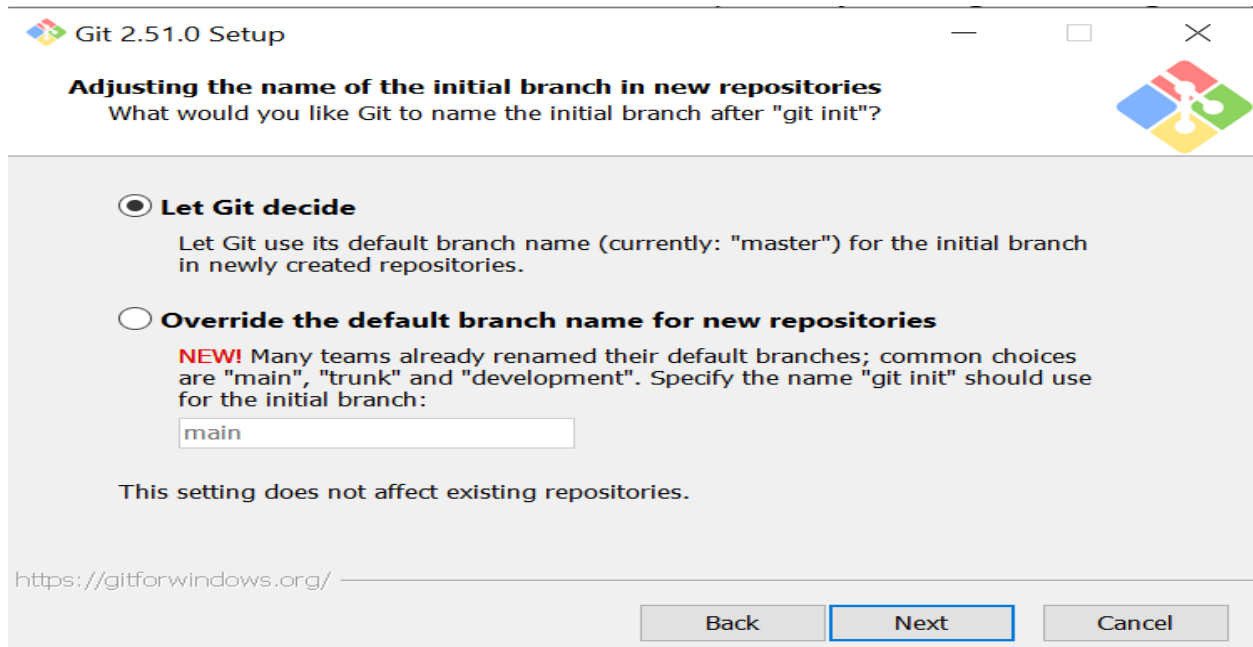
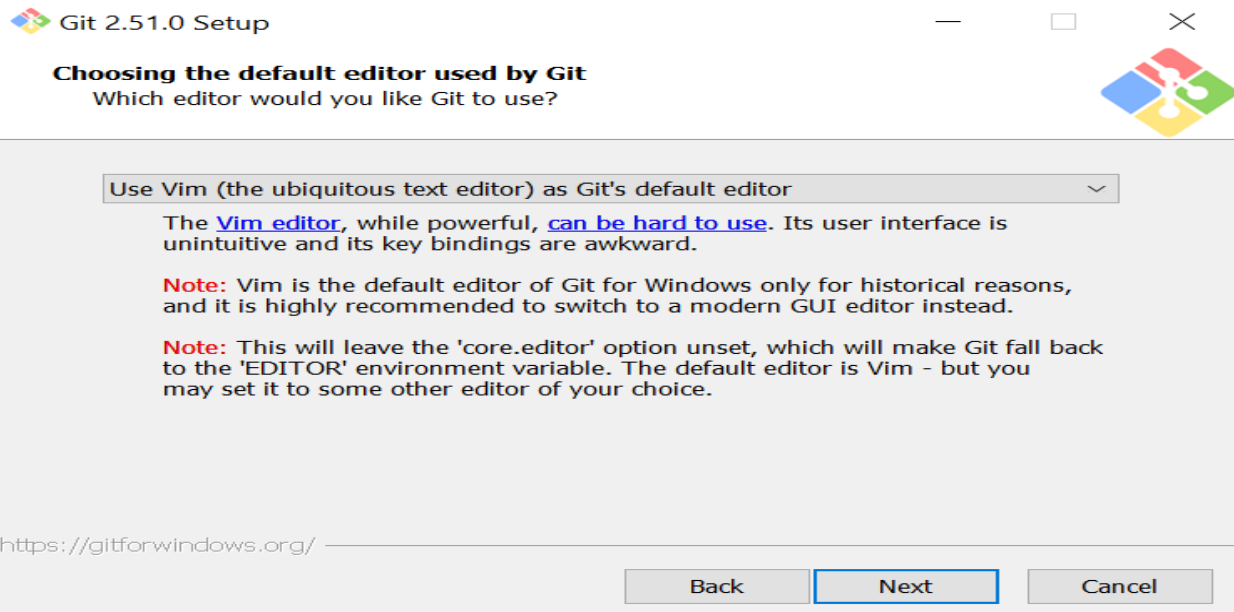
The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change

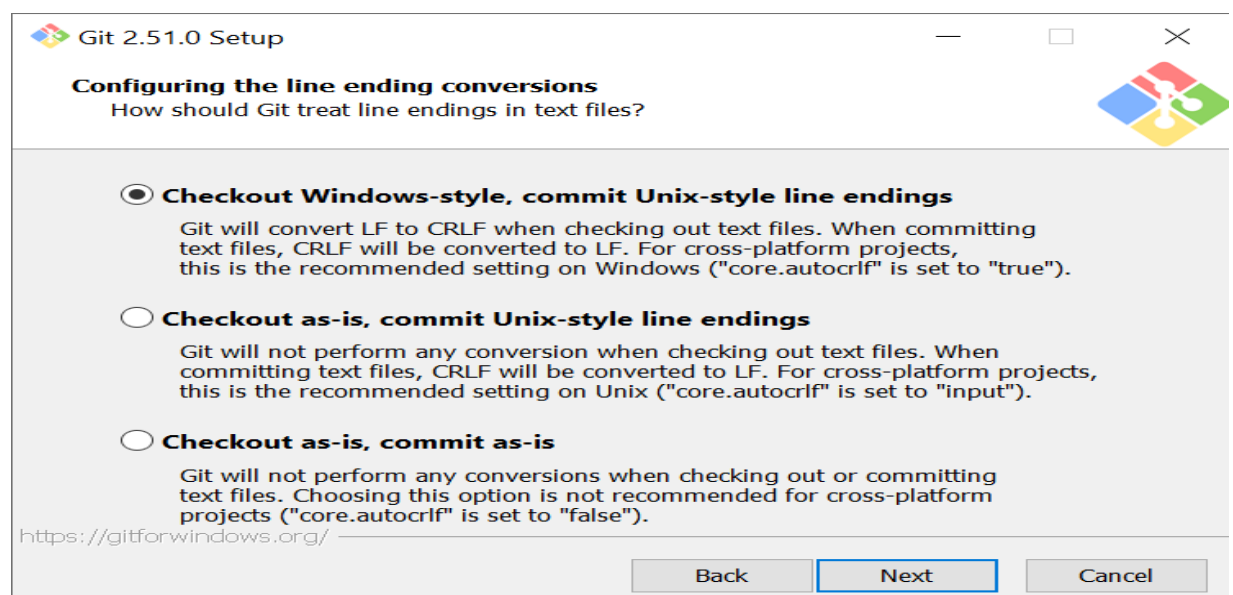
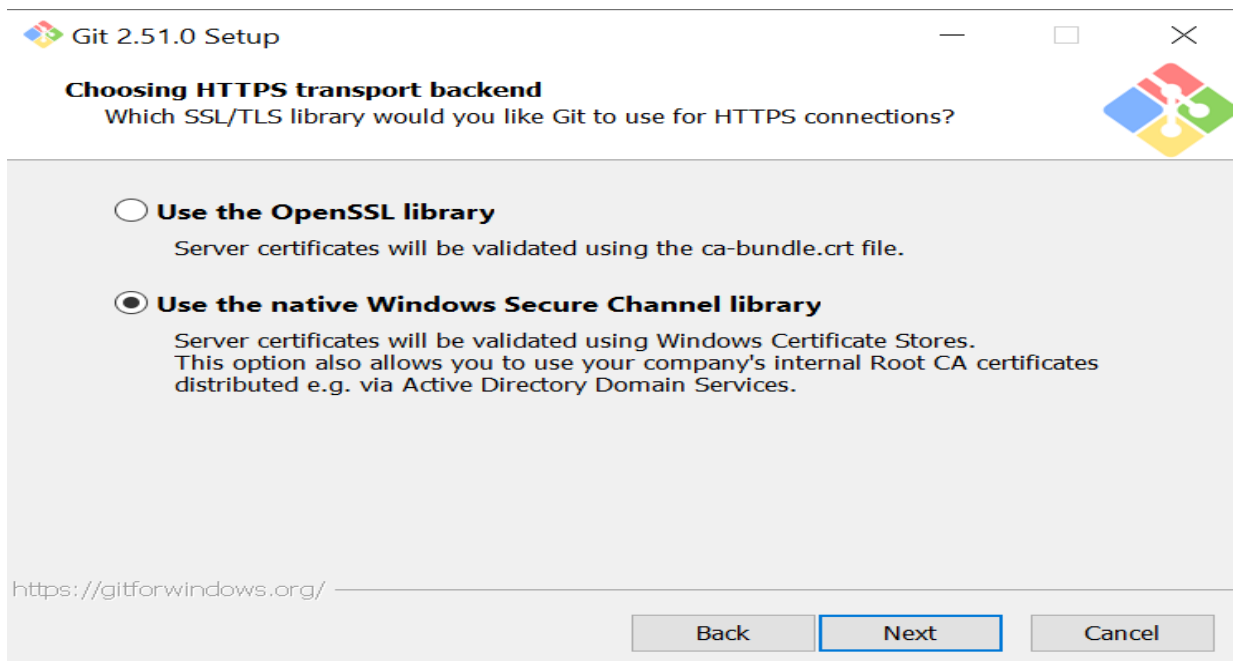
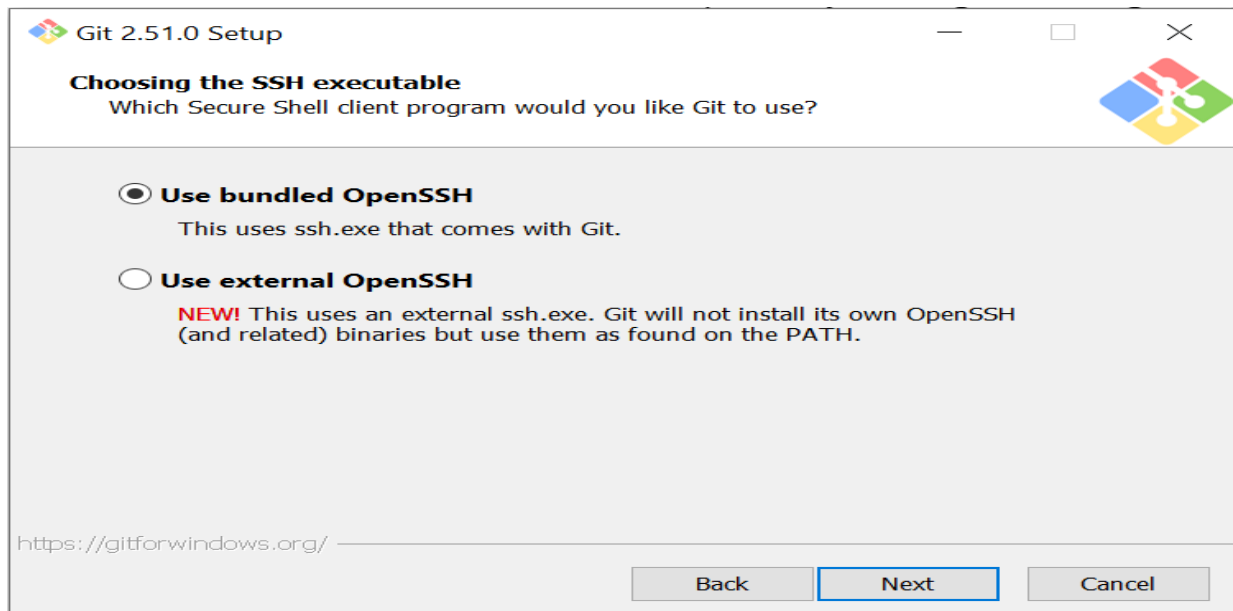
<https://gitforwindows.org/>

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Configuring the terminal emulator to use with Git Bash

Which terminal emulator do you want to use with your Git Bash?

☒ **Use MinTTY (the default terminal of MSYS2)**

Git Bash will use MinTTY as terminal emulator, which sports a resizable window, non-rectangular selections and a Unicode font. Windows console programs (such as interactive Python) must be launched via ``winpty`` to work in MinTTY.

☐ **Use Windows' default console window**

Git will use the default console window of Windows ("cmd.exe"), which works well with Win32 console programs such as interactive Python or node.js, but has a very limited default scroll-back, needs to be configured to use a Unicode font in order to display non-ASCII characters correctly, and prior to Windows 10 its window was not freely resizable and it only allowed rectangular text selections.

<https://gitforwindows.org/>

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Choose the default behavior of ``git pull``What should ``git pull`` do by default?☒ **Fast-forward or merge**

Fast-forward the current branch to the fetched branch when possible, otherwise create a merge commit.

☐ **Rebase**

Rebase the current branch onto the fetched branch. If there are no local commits to rebase, this is equivalent to a fast-forward.

☐ **Only ever fast-forward**

Fast-forward to the fetched branch. Fail if that is not possible. This is the standard behavior of ``git pull``.

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Choose a credential helper

Which credential helper should be configured?

☒ **Git Credential Manager**

Use the [cross-platform Git Credential Manager](#). See more information about the future of Git Credential Manager [here](#).

☐ **None**

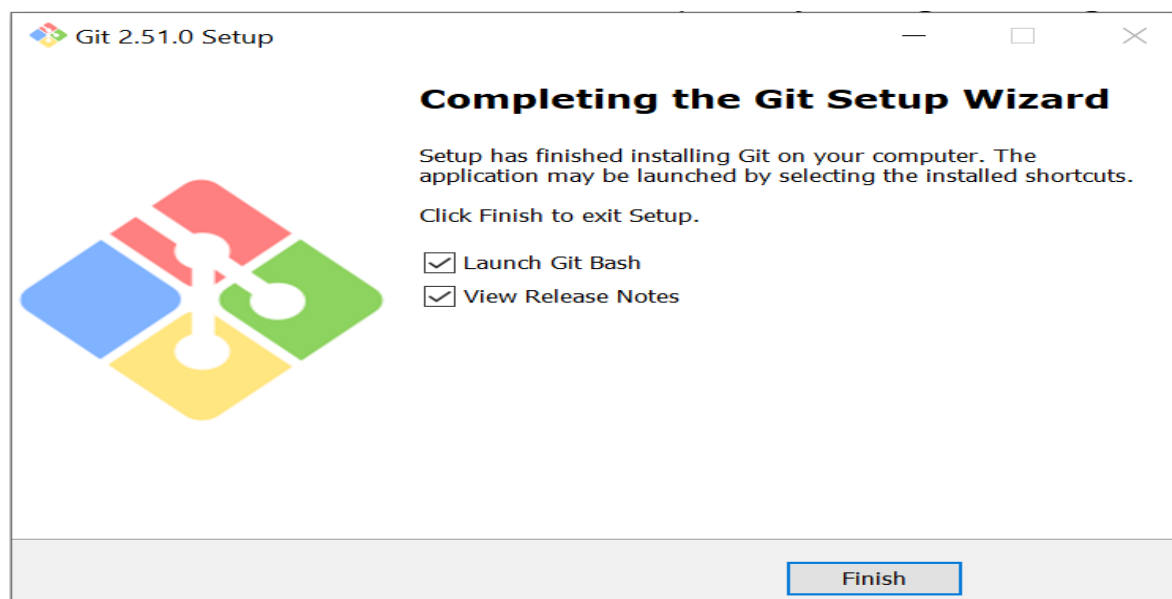
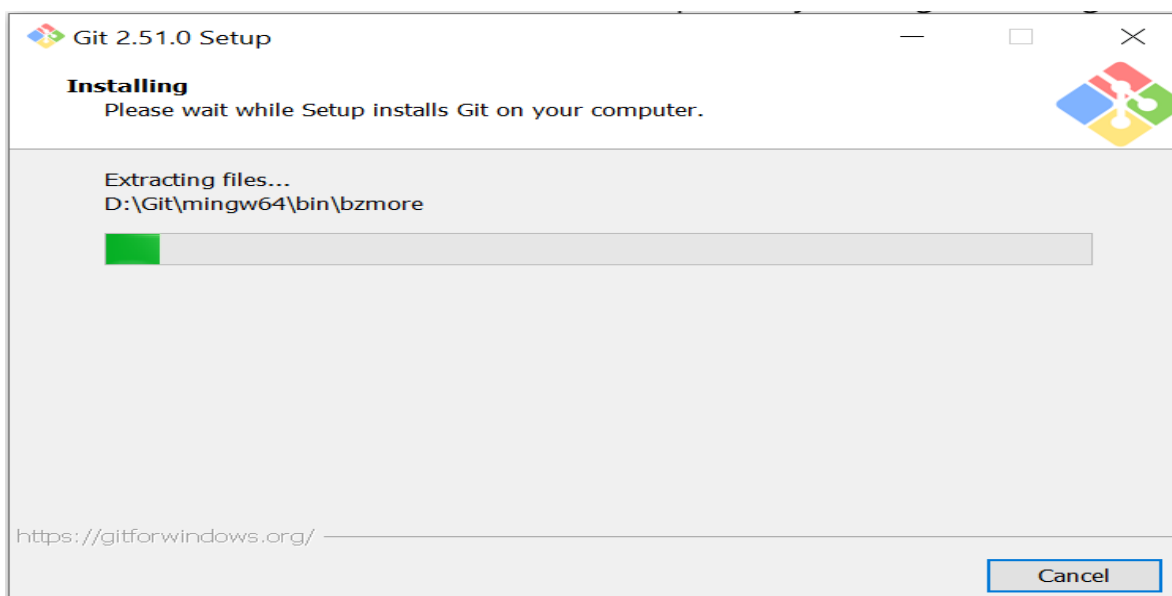
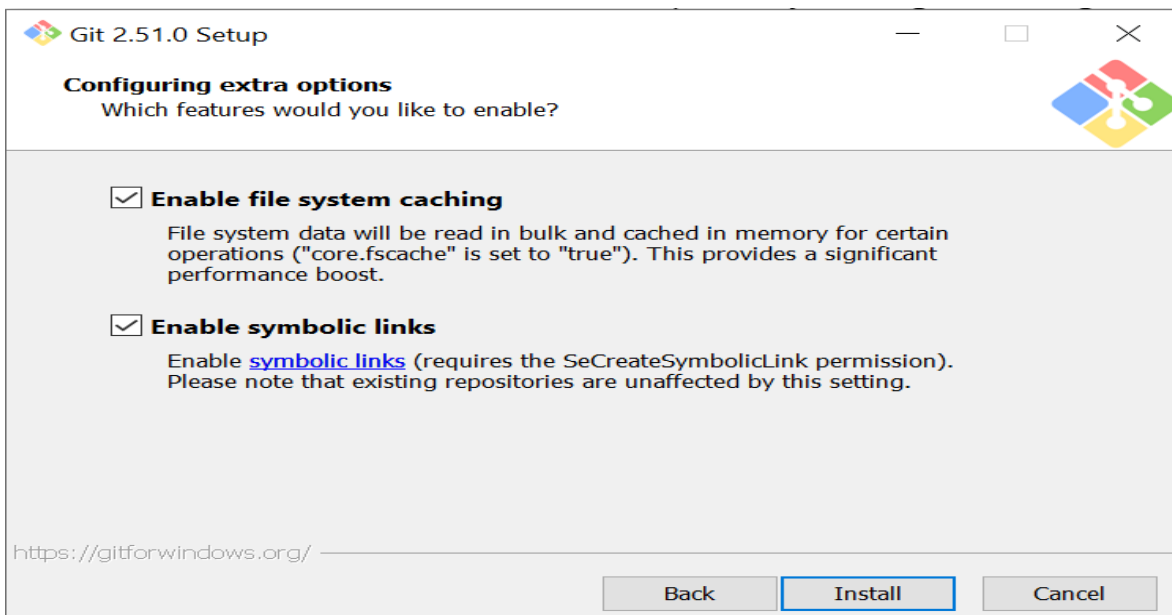
Do not use a credential helper.

<https://gitforwindows.org/>

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Task 1: Create Private GitHub Repository

Create a new private repository named Lab2 on GitHub.

Create a new repository
Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).
Required fields are marked with an asterisk ().*

1 General

Owner * hajrasarwar11 / Repository name * Lab2
Lab2 is available.

Great repository names are short and memorable. How about [reimagined-dollop](#)?

Description

0 / 350 characters

2 Configuration

Choose visibility * Private
Choose who can see and commit to this repository

Add README On
READMEs can be used as longer descriptions. [About READMEs](#)

Add .gitignore No .gitignore

Task 2: Connect Repository via SSH

1. Generate a new SSH key using PowerShell:

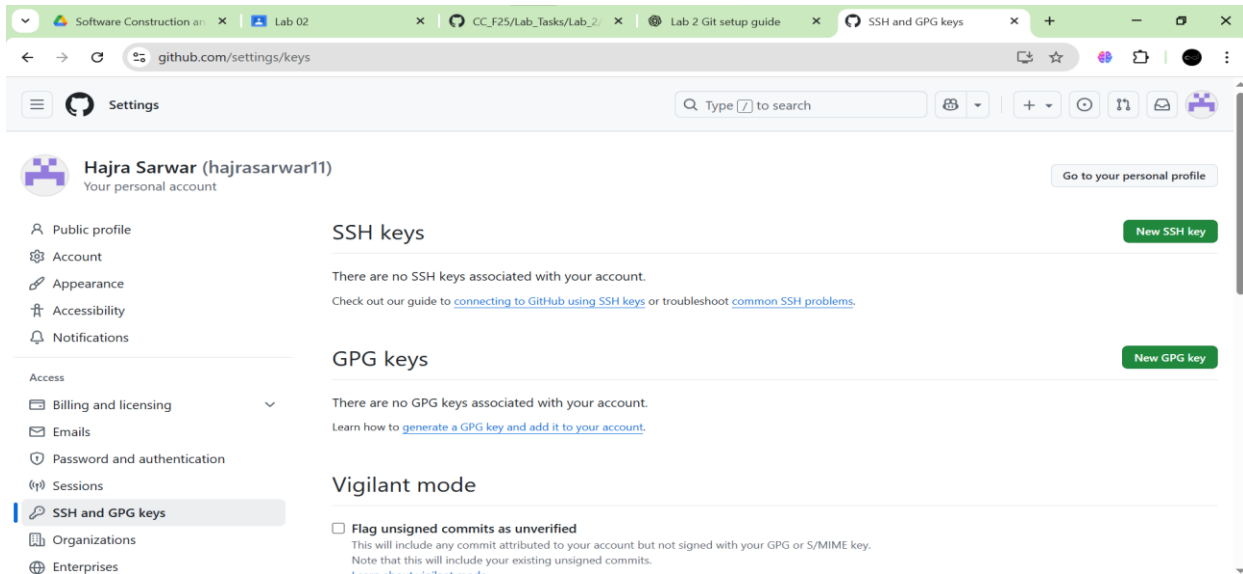
`ssh-keygen -t ed25519 -C your_email@example.com`

```
PS C:\Users\HP> ssh-keygen -t ed25519 -C "23-22411-022@se.fjwu.edu.pk"
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\HP/.ssh/id_ed25519):
C:\Users\HP/.ssh/id_ed25519 already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\HP/.ssh/id_ed25519
Your public key has been saved in C:\Users\HP/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:uUKQ9QtM6xQpW15f5LqdTW+d474myThsZeScN7gSWi8 23-22411-022@se.fjwu.edu.pk
The key's randomart image is:
+--[ED25519 256]--+
|      +.  ..      |
|    .O+..  ..    |
|   O=...  ..    |
|  .+.. O..      |
|    O S . .      |
|      . = . .O   |
|      . = & =O+  |
|      . E %.=.   |
|      . +.*+O    |
+-----[SHA256]-----+
PS C:\Users\HP>
```

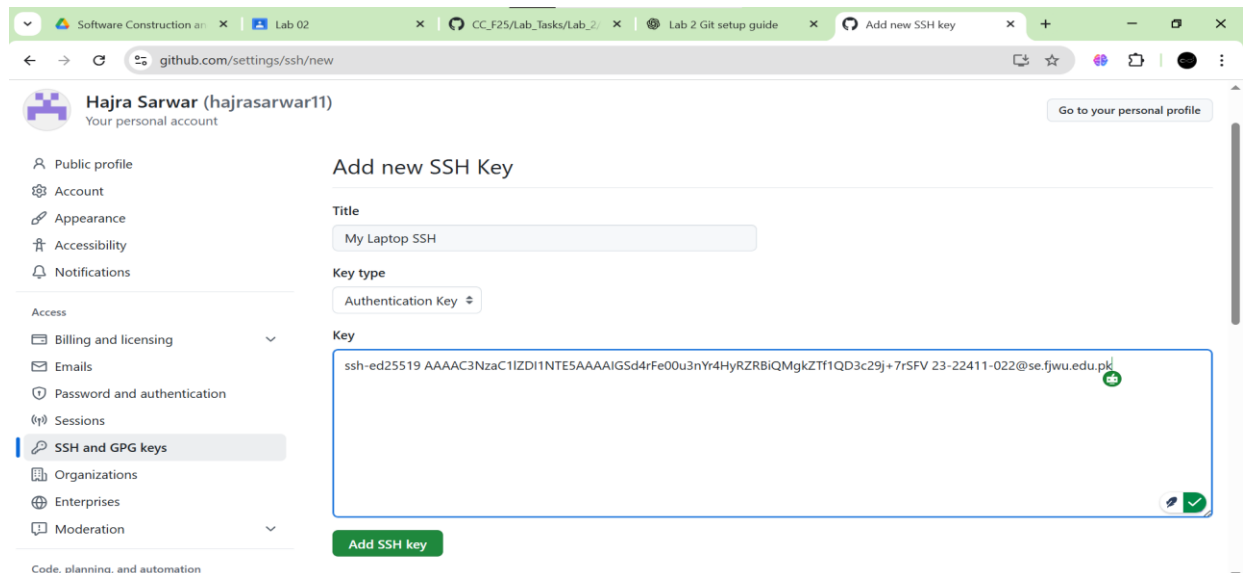
```
PS C:\Users\HP> notepad $env:USERPROFILE\.ssh\id_ed25519.pub
PS C:\Users\HP>

id_ed25519 - Notepad
File Edit Format View Help
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGSd4rFe00u3nYr4HyRZRBiQMgkZTf1QD3c29j+7rSFV 23-22411-022@se.fjwu.edu.pk
```

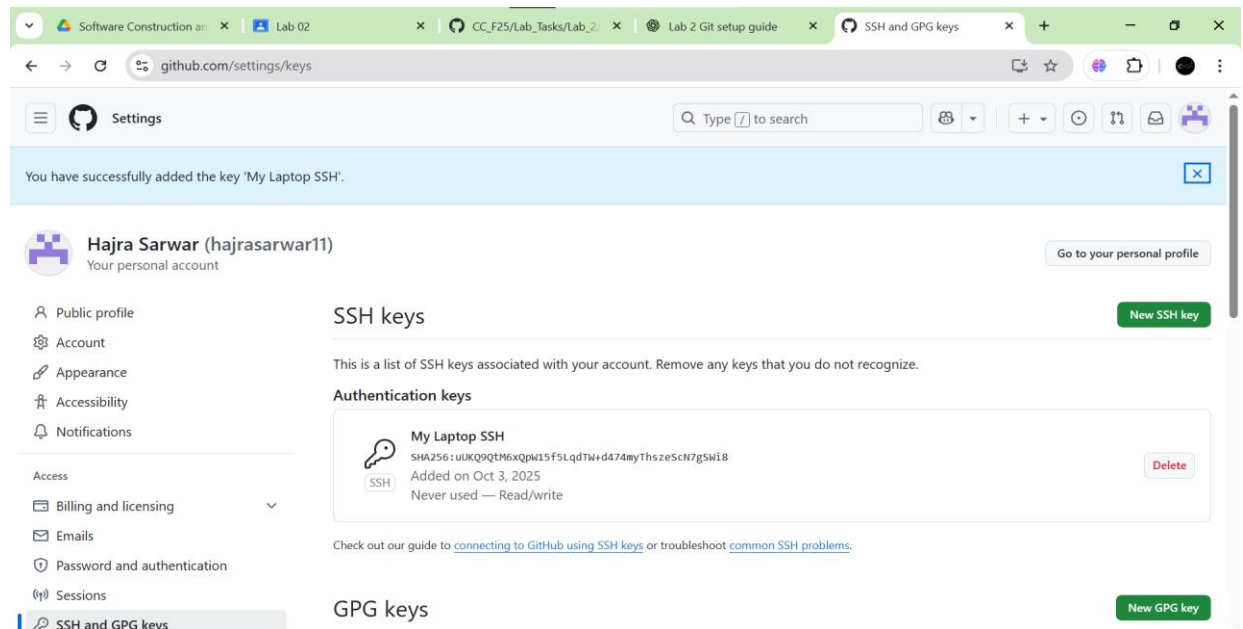
2. Add your SSH public key to GitHub (Settings > SSH and GPG keys).



The screenshot shows the GitHub Settings page for user Hajra Sarwar (hajrasarwar11). The left sidebar contains navigation links: Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and licensing, Emails, Password and authentication, Sessions, SSH and GPG keys (selected), Organizations, and Enterprises. The main content area is titled 'SSH keys' and includes a 'New SSH key' button. Below this, it states 'There are no SSH keys associated with your account.' and provides links to guides for connecting to GitHub using SSH keys and troubleshooting common SSH problems. The 'GPG keys' section also shows 'No GPG keys associated with your account.' with a 'New GPG key' button and a link to learn how to generate a GPG key. The 'Vigilant mode' section is also visible, with a checkbox for 'Flag unsigned commits as unverified'.



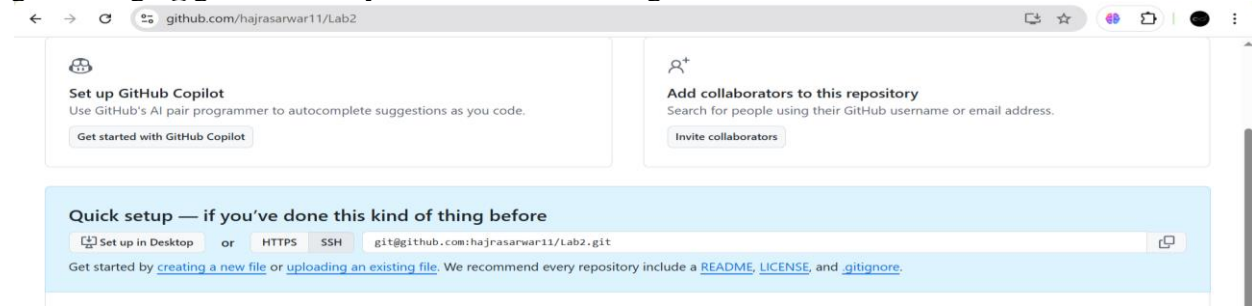
The screenshot shows the 'Add new SSH Key' form in the GitHub Settings page. The form has three fields: 'Title' (filled with 'My Laptop SSH'), 'Key type' (set to 'Authentication Key'), and 'Key' (filled with a long SSH public key). A green checkmark icon is visible next to the key field. At the bottom of the form is a green 'Add SSH key' button. The left sidebar is identical to the previous screenshot, with 'SSH and GPG keys' selected.



The screenshot shows the GitHub Settings page after the SSH key has been added. A blue success message at the top states 'You have successfully added the key 'My Laptop SSH''. The 'SSH keys' section now displays a list of SSH keys, including the newly added 'My Laptop SSH' key. The key details shown are: SHA256: uUKQ9QTH6xQW15f5LqdtW+d474myThsZesCn7g5w18, Added on Oct 3, 2025, and Never used — Read/write. A 'Delete' button is visible next to the key. The 'GPG keys' section remains empty with a 'New GPG key' button. The left sidebar is identical to the previous screenshots, with 'SSH and GPG keys' selected.

3. Clone your Lab2 repo using SSH.

git clone git@github.com:<yourusername>/Lab2.git



```
HP@DESKTOP-JFEH5TK MINGW64 ~
$ git clone git@github.com:hajrasarwar11/Lab2.git
Cloning into 'Lab2'...
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
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.
warning: You appear to have cloned an empty repository.
```

Task 3: Explore the .git Folder

1. Navigate into your cloned repository folder.

```
HP@DESKTOP-JFEH5TK MINGW64 ~
$ cd Lab2
```

2. Show hidden files and locate the .git directory.

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ pwd
/c/Users/HP/Lab2

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ ls -la
total 20
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ./
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ../
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 .git/
```

3. Explore what's inside using: ls -a .git

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ ls -la .git
total 11
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ./
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ../
-rw-r--r-- 1 HP 197609 21 Oct 3 12:09 HEAD
-rw-r--r-- 1 HP 197609 296 Oct 3 12:09 config
-rw-r--r-- 1 HP 197609 73 Oct 3 12:09 description
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 hooks/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 info/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 objects/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 refs/
```

Note: This folder contains history, logs, and config for your repository. Do **not** modify these files manually.

Task 4: Configure Git Username and Email

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

```
git config --global user.name "Your Name"
```

```
git config --global user.email "your_email@example.com"
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git config --global user.name "hajrasarwar11"

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git config --global user.email "23-22411-022@se.fjwu.edu.pk"
```

2. Verify your configuration:

```
git config --list
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ 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=true
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=hajrasarwar11
user.email=23-22411-022@se.fjwu.edu.pk
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true
remote.origin.url=git@github.com:hajrasarwar11/Lab2.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ ls -la .git | sed -n '1,200p'
total 11
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ./
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 ../
-rw-r--r-- 1 HP 197609 21 Oct 3 12:09 HEAD
-rw-r--r-- 1 HP 197609 296 Oct 3 12:09 config
-rw-r--r-- 1 HP 197609 73 Oct 3 12:09 description
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 hooks/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 info/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 objects/
drwxr-xr-x 1 HP 197609 0 Oct 3 12:09 refs/

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ |
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ cat .git/config
[core]
    repositoryformatversion = 0
    filemode = false
    bare = false
    logallrefupdates = true
    symlinks = false
    ignorecase = true
[remote "origin"]
    url = git@github.com:hajrasarwar11/Lab2.git
    fetch = +refs/heads/*:refs/remotes/origin/*
[branch "main"]
    remote = origin
    merge = refs/heads/main

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$
```

Task 5: Local Repository Management

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

```
rm -rf .git
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ rm -rf .git
```

2. Re-initialize the local git repository:

```
git init
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (master)
$ git branch -M main
```

3. Add a file named README.md and commit it:

```
echo "# Lab2 Git Practice" > README.md
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ echo "# Lab2 - hajrasarwar11 - 23-22411-022" > README.md
```

```
git add README.md
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (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
```

```
git commit -m "Initial commit"
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git commit -m "Initial commit: add README"
[main (root-commit) 8550574] Initial commit: add README
1 file changed, 1 insertion(+)
create mode 100644 README.md
```

4. Connect your local repo to GitHub and push:

```
git remote add origin git@github.com:<yourusername>/Lab2.git
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git remote add origin git@github.com:hajrasarwar11/Lab2.git
```

```
git push -u origin main
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 275 bytes | 55.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ echo "My name: hajrasarwar11
Roll: 23-BSE(5A)-022
This is my Lab2 practice notes." > notes.txt
```

Task 6: File Status & Staging

1. Create a new file notes.txt and write a note.
2. Check status:

```
git status
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git status
On branch main
Your branch is up to date with 'origin/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)
```

3. Stage and commit:

git add notes.txt

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (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
```

git commit -m "Add notes.txt"

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git commit -m "Add notes.txt"
[main c0e5619] Add notes.txt
1 file changed, 3 insertions(+)
create mode 100644 notes.txt
```

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

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git push
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), 359 bytes | 59.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
8550574..c0e5619 main -> main

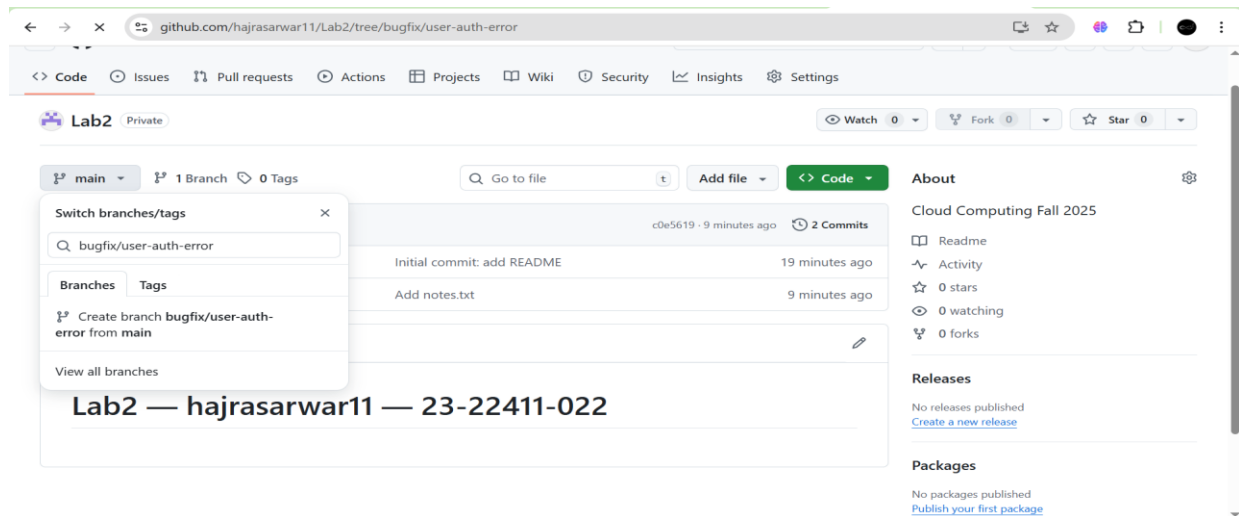
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$
```

Task 7: Branch Creation Using GitHub GUI

1. On GitHub (web interface), create a branch named bugfix/user-auth-error.

The screenshot shows the GitHub web interface for the repository 'hajrasarwar11 / Lab2'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository name 'Lab2' is displayed as 'Private'. Below the repository name, there are buttons for Watch, Fork, and Star. The main content area shows the commit history for 'Add notes.txt' with two commits. The 'About' section on the right provides information about the repository, including a README link, activity, stars, and forks. The 'Releases' section indicates no releases have been published. The 'Packages' section is also visible. Below the repository view, the 'Branches' page is shown, featuring a 'New branch' button and a table of existing branches. The table has columns for Branch, Updated, Check status, Behind / Ahead, and Pull request. The 'main' branch is listed as the default branch, updated 2 minutes ago.

Branch	Updated	Check status	Behind / Ahead	Pull request
main	2 minutes ago		Default	



2. Pull the branch to your local repository to sync.

git pull origin bugfix/user-auth-error

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git fetch origin bugfix/user-auth-error
From github.com:hajrasarwar11/Lab2
* branch          bugfix/user-auth-error -> FETCH_HEAD
* [new branch]     bugfix/user-auth-error -> origin/bugfix/user-auth-error
```

Task 8: Branch Creation and Push Using Git Bash

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

git checkout -b feature/db-connection

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git checkout bugfix/user-auth-error
branch 'bugfix/user-auth-error' set up to track 'origin/bugfix/user-auth-error'.
Switched to a new branch 'bugfix/user-auth-error'
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (bugfix/user-auth-error)
$ git branch -a
* bugfix/user-auth-error
  main
  remotes/origin/bugfix/user-auth-error
  remotes/origin/main
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (bugfix/user-auth-error)
$ git checkout -b feature/db-connection
Switched to a new branch 'feature/db-connection'
```

2. Push the branch to the remote repository:

git push origin feature/db-connection

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/db-connection)
$ git push -u 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/hajrasarwar11/Lab2/pull/new/feature/db-connection
remote:
To github.com:hajrasarwar11/Lab2.git
* [new branch]     feature/db-connection -> feature/db-connection
branch 'feature/db-connection' set up to track 'origin/feature/db-connection'.
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/db-connection)
$ git branch -a
* feature/db-connection
  main
  remotes/origin/bugfix/user-auth-error
  remotes/origin/feature/db-connection
  remotes/origin/main
```

Branch	Updated	Check status	Behind / Ahead	Pull request
main	15 minutes ago		Default	

Branch	Updated	Check status	Behind / Ahead	Pull request
feature/db-connection	2 minutes ago		0 / 0	
bugfix/user-auth-error	6 minutes ago		0 / 0	

Branch	Updated	Check status	Behind / Ahead	Pull request
feature/db-connection	2 minutes ago		0 / 0	
bugfix/user-auth-error	6 minutes ago		0 / 0	

Task 9: Branching & Merging

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

```
git checkout -b feature-1
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/db-connection)
$ git checkout -b feature-1
Switched to a new branch 'feature-1'
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature-1)
$ cat > main.py <<'EOF'
def greet(name):
    return f"Hello, {name}!"

if __name__ == "__main__":
    print(greet("Student"))
EOF
```

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

```
git add main.py
```

```
git commit -m "Add new function to main.py"
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature-1)
$ git add main.py
git commit -m "Add greet 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 4e68ee0] Add greet function to main.py
1 file changed, 5 insertions(+)
create mode 100644 main.py
```

3. Switch back to main and merge:

```
git checkout main
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature-1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
git merge feature-1
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git merge feature-1
Updating c0e5619..4e68ee0
Fast-forward
 main.py | 5 +++++
1 file changed, 5 insertions(+)
create mode 100644 main.py
```

4. Push all branches:

```
git push origin main
```

```
git push origin feature-1
```

```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (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), 417 bytes | 59.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
   c0e5619..4e68ee0  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/hajrasarwar11/Lab2/pull/new/feature-1
remote:
To github.com:hajrasarwar11/Lab2.git
 * [new branch]      feature-1 -> feature-1

```

```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git branch -a
bugfix/user-auth-error
feature-1
feature/db-connection
* main
remotes/origin/bugfix/user-auth-error
remotes/origin/feature-1
remotes/origin/feature/db-connection
remotes/origin/main

```

github.com/hajrasarwar11/Lab2/branches

Branch	Updated	Check status	Behind	Ahead	Pull request
main	3 minutes ago				Default

Your branches

Branch	Updated	Check status	Behind	Ahead	Pull request
feature-1	2 minutes ago		0	0	
feature/db-connection	14 minutes ago		1	0	
bugfix/user-auth-error	19 minutes ago		1	0	

Active branches

Branch	Updated	Check status	Behind	Ahead	Pull request
feature-1	2 minutes ago		0	0	
feature/db-connection	14 minutes ago		1	0	
bugfix/user-auth-error	19 minutes ago		1	0	

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

1. On GitHub, create a Pull Request from the branch feature/db-connection to main.

github.com/hajrasarwar11/Lab2

hajrasarwar11 / Lab2

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Lab2 Private Watch 0 Fork 0 Star 0

main 4 Branches 0 Tags

Go to file Add file Code

hajrasarwar11 Add greet function to main.py 4e68ee0 · 8 minutes ago 3 Commits

README.md	Initial commit: add README	39 minutes ago
main.py	Add greet function to main.py	8 minutes ago
notes.txt	Add notes.txt	29 minutes ago

README

Lab2 — hajrasarwar11 — 23-22411-022

About

Cloud Computing Fall 2025

Readme Activity 0 stars 0 watching 0 forks

Releases

No releases published
Create a new release

Packages

github.com/hajrasarwar11/Lab2/pulls

hajrasarwar11 / Lab2

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Filters is:pr is:open Labels 9 Milestones 0 New pull request

Welcome to pull requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#).

ProTip! Type g p on any issue or pull request to go back to the pull request listing page.

https://github.com/hajrasarwar11/Lab2/compare

hajrasarwar11 / Lab2

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Compare changes

Compare changes across branches, commits, tags, and more below. If you need to, you can also [compare across forks](#).

base: main compare: main

Choose different branches or forks above to discuss and review changes. [Learn about pull requests](#) Create pull request

Compare and review just about anything

Branches, tags, commit ranges, and time ranges. In the same repository and across forks.

Example comparisons	
feature-1	9 minutes ago
feature/db-connection	30 minutes ago

hajrasarwar11 / Lab2

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

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](#).

base: main compare: feature/db-connection

There isn't anything to compare.

main is up to date with all commits from feature/db-connection. Try [switching the base](#) for your comparison.

Showing 0 changed files with 0 additions and 0 deletions. Split Unified

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```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git checkout feature/db-connection
echo "# DB connection placeholder" > db.txt
git add db.txt
git commit -m "Add db.txt placeholder"
git push origin feature/db-connection
Switched to branch 'feature/db-connection'
Your branch is up to date with 'origin/feature/db-connection'.
warning: in the working copy of 'db.txt', LF will be replaced by CRLF the next time Git touches it
[feature/db-connection c075305] Add db.txt placeholder
1 file changed, 1 insertion(+)
 create mode 100644 db.txt
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 346 bytes | 49.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
 c0e5619..c075305 feature/db-connection -> feature/db-connection
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/db-connection)
$ |
```


2. Review the Pull Request and merge it using the GitHub GUI.

The screenshot displays the GitHub web interface for a repository named 'Lab2' by user 'hajrasarwar11'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area is titled 'Comparing changes' and shows a comparison between the 'base: main' branch and the 'compare: feature/db-connection' branch. A green checkmark indicates the branches are 'Able to merge'. Below this, there's a section for 'Commits on Oct 3, 2025' showing a commit 'Add db.txt placeholder' by 'hajrasarwar11' committed 1 minute ago. The diff view shows one changed file with 1 addition and 0 deletions. A 'Create pull request' button is visible.

Below the comparison view, the 'Open a pull request' section is shown. It prompts the user to 'Add a title' (with the default 'Feature/db-connection') and 'Add a description' (with the default 'Add DB connection branch — testing PR'). The right sidebar contains settings for Reviews, Assignees, Labels, Projects, Milestone, and Development.

The second part of the screenshot shows the pull request 'Feature/db-connection #1' created by 'hajrasarwar11'. It shows the pull request details, including the title, description, and a 'Merge pull request' button. The 'No conflicts with base branch' status is confirmed. The right sidebar shows settings for Assignees, Labels, Projects, Milestone, and Development. At the bottom, there's a section for 'Add a comment' with a text area and a 'Close pull request' button.


```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/db-connection)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git branch -d feature/db-connection
warning: deleting branch 'feature/db-connection' that has been merged to
'refs/remotes/origin/feature/db-connection', but not yet merged to HEAD
Deleted branch feature/db-connection (was c075305).

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git push origin --delete feature/db-connection
error: unable to delete 'feature/db-connection': remote ref does not exist
error: failed to push some refs to 'github.com:hajrasarwar11/Lab2.git'

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git fetch --prune
From github.com:hajrasarwar11/Lab2
- [deleted] (none) -> origin/feature/db-connection
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 1), reused 2 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (5/5), 1.25 KiB | 37.00 KiB/s, done.
4e68ee0..8698b21 main -> origin/main

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git branch -a
bugfix/user-auth-error
feature-1
* main
remotes/origin/HEAD -> origin/main
remotes/origin/bugfix/user-auth-error
remotes/origin/feature-1
remotes/origin/main

```

Task 11: Detailed Branch Strategy (Develop/Staging)

1. Create the following branches to simulate a professional branching strategy:
 . Develop, Staging, feature/*, bugfix/*

```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (main)
$ git checkout -b develop
git push -u origin develop
Switched to a new branch '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/hajrasarwar11/Lab2/pull/new/develop
remote:
To github.com:hajrasarwar11/Lab2.git
* [new branch] develop -> develop
branch 'develop' set up to track 'origin/develop'.

```

```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (develop)
$ git checkout main
git checkout -b staging
git push -u origin staging
Switched to branch 'main'
Your branch is behind 'origin/main' by 2 commits, and can be fast-forwarded.
(Use "git pull" to update your local branch)
Switched to a new branch '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/hajrasarwar11/Lab2/pull/new/staging
remote:
To github.com:hajrasarwar11/Lab2.git
* [new branch] staging -> staging
branch 'staging' set up to track 'origin/staging'.

```

```

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (staging)
$ git checkout develop
git checkout -b feature/new-ui
echo "UI feature placeholder" > feature_ui.txt
git add feature_ui.txt
git commit -m "Add UI feature placeholder"
git push -u origin feature/new-ui
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Switched to a new branch 'feature/new-ui'
warning: in the working copy of 'feature_ui.txt', LF will be replaced by CRLF the next time Git touches it
[feature/new-ui 9bee4a3] Add UI feature placeholder
1 file changed, 1 insertion(+)
create mode 100644 feature_ui.txt
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 389 bytes | 77.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/new-ui' on GitHub by visiting:
remote: https://github.com/hajrasarwar11/Lab2/pull/new/feature/new-ui
remote:
To github.com:hajrasarwar11/Lab2.git
* [new branch] feature/new-ui -> feature/new-ui
branch 'feature/new-ui' set up to track 'origin/feature/new-ui'.

```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/new-ui)
```

```
$ git branch -a
bugfix/user-auth-error
develop
feature-1
* feature/new-ui
main
staging
remotes/origin/HEAD -> origin/main
remotes/origin/bugfix/user-auth-error
remotes/origin/develop
remotes/origin/feature-1
remotes/origin/feature/new-ui
remotes/origin/main
remotes/origin/staging
```

github.com/hajrasarwar11/Lab2/branches

Branch	Updated	Check status	Behind	Ahead	Pull request
develop	3 minutes ago		2	2	...
feature/new-ui	6 minutes ago		2	1	...
staging	7 minutes ago		2	0	...
feature-1	31 minutes ago		2	0	...
bugfix/user-auth-error	47 minutes ago		3	0	...

Active branches

Branch	Updated	Check status	Behind	Ahead	Pull request
develop	3 minutes ago		2	2	...
feature/new-ui	6 minutes ago		2	1	...
staging	7 minutes ago		2	0	...
feature-1	31 minutes ago		2	0	...
bugfix/user-auth-error	47 minutes ago		3	0	...

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (feature/new-ui)
$ git checkout develop
git merge --no-ff feature/new-ui -m "Merge feature/new-ui into develop"
git push origin develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Merge made by the 'ort' strategy.
 feature_ui.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature_ui.txt
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 233 bytes | 77.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
 4e68ee0..b52a739 develop -> develop
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (develop)
$ git checkout staging
git merge --no-ff develop -m "Merge develop into staging for testing"
git push origin staging
Switched to branch 'staging'
Your branch is up to date with 'origin/staging'.
Merge made by the 'ort' strategy.
 feature_ui.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature_ui.txt
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 241 bytes | 241.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
 4e68ee0..1d4228b staging -> staging
```

github.com/hajrasarwar11/Lab2

hajrasarwar11 / Lab2

Type to search

+

+

+

+

+

+

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Lab2 Private

Watch 0 Fork 0 Star 0

feature/new-ui had recent pushes 8 minutes ago

Compare & pull request

develop had recent pushes 5 minutes ago

Compare & pull request

staging had recent pushes 52 seconds ago

Compare & pull request

main 6 Branches 0 Tags

Go to file

Add file

<> Code

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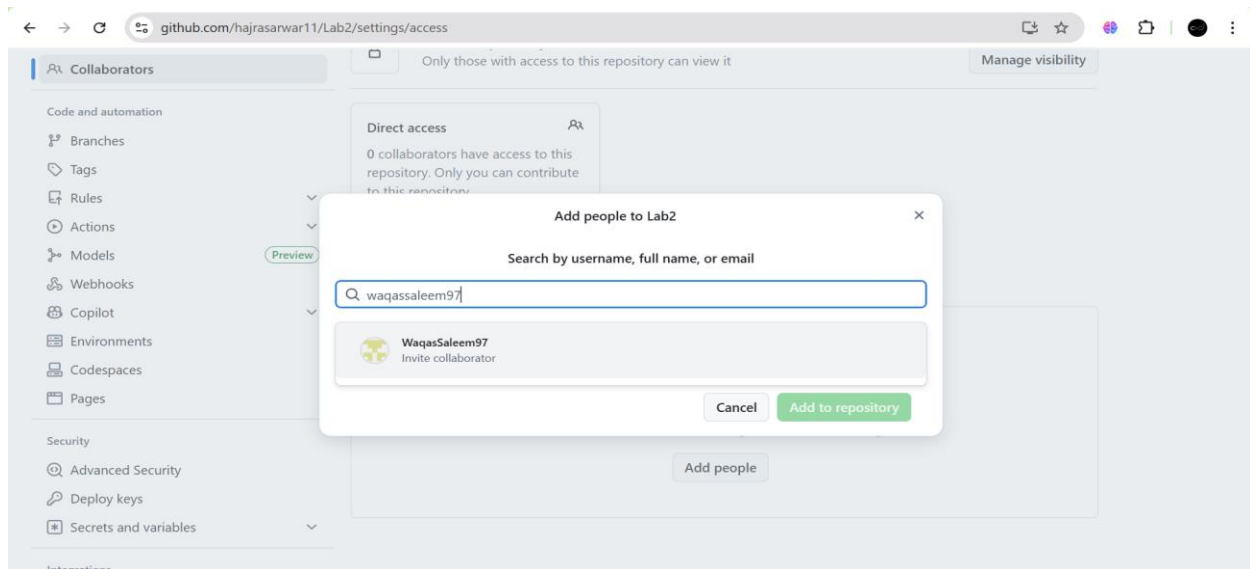
0 stars

0 watching

0 forks

```
# @DESKTOP-3FEH5TK MINGW64 ~/Lab2 (main)
$ git branch -d feature/new-ui
git push origin --delete feature/new-ui
git fetch --prune
git branch -a # verify it's gone
Deleted branch feature/new-ui (was 9bee4a3).
To github.com:hajrasarwar11/Lab2.git
- [deleted] feature/new-ui
bugfix/user-auth-error
develop
feature-1
* main
staging
remotes/origin/HEAD -> origin/main
remotes/origin/bugfix/user-auth-error
remotes/origin/develop
remotes/origin/feature-1
remotes/origin/main
remotes/origin/staging
```

2. Add a collaborator on your GitHub repo.



3. Both users:

- Pull latest changes.
- Add their name and fun fact to notes.txt.
- Commit and push to the collab branch.

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (collab)
$ git fetch origin
git checkout collab
git pull origin collab
Already on 'collab'
Your branch is up to date with 'origin/collab'.
From github.com:hajrasarwar11/Lab2
* branch collab -> FETCH_HEAD
Already up to date.

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (collab)
$ echo "Name: Hajra Sarwar - Fun fact: I love CC" >> notes.txt

HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (collab)
$ git add notes.txt
git commit -m "Add name & fun fact to notes.txt - Hajra Sarwar"
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 0540d64] Add name & fun fact to notes.txt - Hajra Sarwar
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), 404 bytes | 134.00 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:hajrasarwar11/Lab2.git
2ab9eae..0540d64 collab -> collab
```

4. Merge collab into main and push.

```
git checkout main
git merge collab
git push origin main
```

```
HP@DESKTOP-JFEH5TK MINGW64 ~/Lab2 (collab)
$ git checkout main
git pull origin main
git merge --no-ff collab -m "Merge collab contributions into main"
git push origin main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
From github.com:hajrasarwar11/Lab2
* branch main -> FETCH_HEAD
Already up to date.
Merge made by the 'ort' strategy.
 notes.txt | 1 +
1 file changed, 1 insertion(+)
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 238 bytes | 119.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:hajrasarwar11/Lab2.git
2ab9eae..8d17b2f main -> main
```

Submission:

hajrasarwar11 / Lab2

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Lab2 Private

Watch 0 Fork 0 Star 0

main 6 Branches 0 Tags

Go to file

Add file Code

hajrasarwar11 Merge collab contributions into main

README.md	Initial commit: add README	yesterday
db.txt	Add db.txt placeholder	yesterday
feature_ui.txt	Add UI feature placeholder	yesterday
main.py	Add greet function to main.py	yesterday
notes.txt	Add name & fun fact to notes.txt — Hajra Sarwar	yesterday

README

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Readme Activity 0 stars 0 watching 0 forks

Releases

No releases published Create a new release

Packages

https://github.com/hajrasarwar11/Lab2/upload/main

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2
\$ git init
Initialized empty Git repository in D:/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2/.git/

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2 (master)
\$ git remote add origin https://github.com/hajrasarwar11/Lab2.git

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2/Images (master)
\$ git remote -v
origin https://github.com/hajrasarwar11/Lab2.git (fetch)
origin https://github.com/hajrasarwar11/Lab2.git (push)

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2/Images (master)
\$ cd ..

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2
\$ ls
'Hajra-BSE(5A)-022 CC-Lab-2.docx' Images/ '~\$jra-BSE(5A)-022 CC-Lab-2.docx'

HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2 (master)
\$ git add Images/
git commit -m "Add Images folder for Lab2 (converted from inner repo)"
git branch -M main
git push -u origin main
[master (root-commit) 1516c4f] Add Images folder for Lab2 (converted from inner repo)
60 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Images/1-git_version.PNG
create mode 100644 Images/10-delete_git.PNG
create mode 100644 Images/11.0-first_commit.PNG
create mode 100644 Images/11.1-first_commit.PNG
create mode 100644 Images/11.2-first_commit.PNG
create mode 100644 Images/12.0-first_push.PNG
create mode 100644 Images/12.1-first_push.PNG
create mode 100644 Images/13-status1.PNG
create mode 100644 Images/14.0-commit_notes.PNG
create mode 100644 Images/14.1-commit_notes.PNG
create mode 100644 Images/15-git_push.PNG
create mode 100644 Images/16-bugfix_branch_gui.PNG
create mode 100644 Images/17-feature-db-connection.PNG
create mode 100644 Images/18-feature_db_branch.PNG
create mode 100644 Images/19-branch_create.PNG
create mode 100644 Images/2.0-git_installation.PNG
create mode 100644 Images/2.1-git_installation.PNG
create mode 100644 Images/2.10-git_installation.PNG
create mode 100644 Images/2.11-git_installation.PNG
create mode 100644 Images/2.12-git_installation.PNG
create mode 100644 Images/2.13-git_installation.PNG
create mode 100644 Images/2.14-git_installation.PNG
create mode 100644 Images/2.15-git_installation.PNG
create mode 100644 Images/2.2-git_installation.PNG
create mode 100644 Images/2.3-git_installation.PNG
create mode 100644 Images/2.4-git_installation.PNG
create mode 100644 Images/2.5-git_installation.PNG
create mode 100644 Images/2.6-git_installation.PNG
create mode 100644 Images/2.7-git_installation.PNG
create mode 100644 Images/2.8-git_installation.PNG
create mode 100644 Images/2.9-git_installation.PNG


```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2 (main)
```

```
$ git fetch origin
git pull --rebase origin main
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (20/20), done.
remote: Total 25 (delta 10), reused 15 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (25/25), 3.10 KiB | 13.00 KiB/s, done.
From https://github.com/hajrasarwar11/Lab2
* [new branch]      bugfix/user-auth-error -> origin/bugfix/user-auth-error
* [new branch]      collab -> origin/collab
* [new branch]      develop -> origin/develop
* [new branch]      feature-1 -> origin/feature-1
* [new branch]      main -> origin/main
* [new branch]      staging -> origin/staging
From https://github.com/hajrasarwar11/Lab2
* branch            main -> FETCH_HEAD
Successfully rebased and updated refs/heads/main.
```

```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2 (main)
```

```
$ git push -u origin main
Enumerating objects: 64, done.
Counting objects: 100% (64/64), done.
Delta compression using up to 8 threads
Compressing objects: 100% (63/63), done.
Writing objects: 100% (63/63), 4.48 MiB | 897.00 KiB/s, done.
Total 63 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/hajrasarwar11/Lab2.git
 8d17b2f..7111f00 main -> main
branch 'main' set up to track 'origin/main'.
```

github.com/hajrasarwar11/Lab2/tree/main/Images

hajrasarwar11 / Lab2

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Files

main

Go to file

Images

- 1-git_version.png
- 10-delete_git.PNG
- 11.0-first_commit.PNG
- 11.1-first_commit.PNG
- 11.2-first_commit.PNG
- 12.0-first_push.PNG
- 12.1-first_push.PNG
- 13-status1.PNG
- 14.0-commit_notes.PNG
- 14.1-commit_notes.PNG

Lab2 / Images /

hajrasarwar11 Add Images folder for Lab2 (converted from inner repo) 7111f00 · 2 minutes ago History

Name	Last commit message	Last commit date
..		
1-git_version.png	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
10-delete_git.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
11.0-first_commit.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
11.1-first_commit.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
11.2-first_commit.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
12.0-first_push.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago
12.1-first_push.PNG	Add Images folder for Lab2 (converted from inner repo)	2 minutes ago

```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib/Lab2 (main)
```

```
$ cd .. # go to parent folder (you'll see the Lab2 folder there)
git clone https://github.com/hajrasarwar11/CC-HajraSarwar-022.git
Cloning into 'CC-HajraSarwar-022'...
remote: Enumerating objects: 54, done.
remote: Counting objects: 100% (54/54), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 54 (delta 8), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (54/54), 2.77 MiB | 157.00 KiB/s, done.
Resolving deltas: 100% (8/8), done.
```

```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib
```

```
$ ls
CC-HajraSarwar-022/ Lab1/ Lab2/ 'Ubuntu Server CLI cheat sheet 02.04.2025.pdf'
```



```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib
$ mkdir "CC-HajraSarwar-022/lab2"
```

```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib
$ cp -r Lab2/* "CC-HajraSarwar-022/lab2/"
```

```
HP@DESKTOP-JFEH5TK MINGW64 /d/FJWU/Semester 5/Cloud Computing/CC Lab-Engr. Shoaib
$ ls "CC-HajraSarwar-022/lab2"
'Hajra-BSE(5A)-022 CC-Lab-2.docx'  Images/  Images_backup/  README.md  db.txt  feature_ui.txt  main.py  notes.txt  '~$jra-BSE(5A)-022 CC-Lab-2.docx'
```

github.com/hajrasarwar11/CC-HajraSarwar-022

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18 Commits

lab1

lab2

README

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lab1

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Hajra-BSE(5A)-022 CC-Lab-2.docx

README.md

db.txt

feature_ui.txt

main.py

notes.txt

~\$jra-BSE(5A)-022 CC-Lab-2.docx

CC-HajraSarwar-022 / lab2

Add file

hajrasarwar11 Added Lab2 files and images (fixed backup folder issue) 7e107bc · 3 minutes ago History

Name	Last commit message	Last commit date
..		
Images	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
Hajra-BSE(5A)-022 CC-Lab-2.docx	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
README.md	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
db.txt	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
feature_ui.txt	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
main.py	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago
notes.txt	Added Lab2 files and images (fixed backup folder issue)	3 minutes ago