
LAB 02

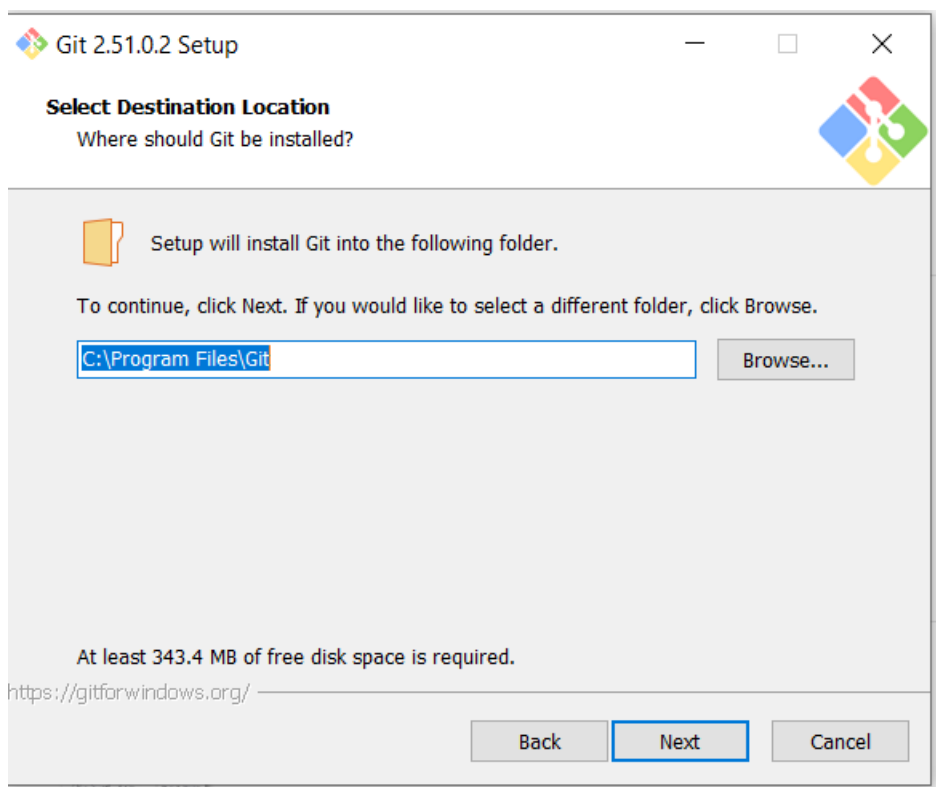
NAME: SHUMAIL ZAHRA

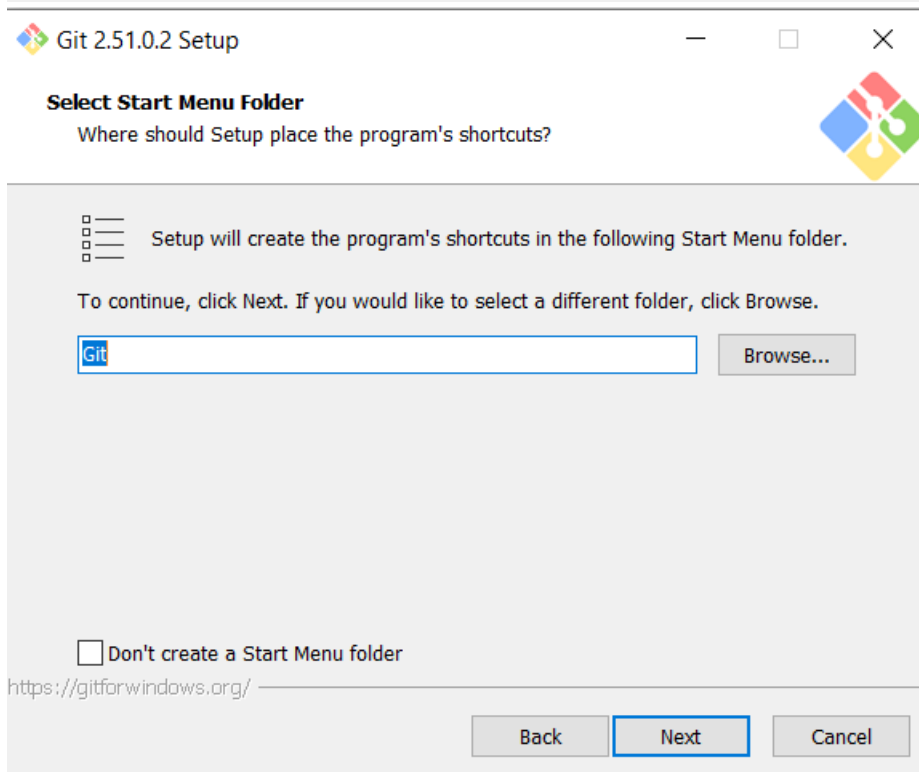
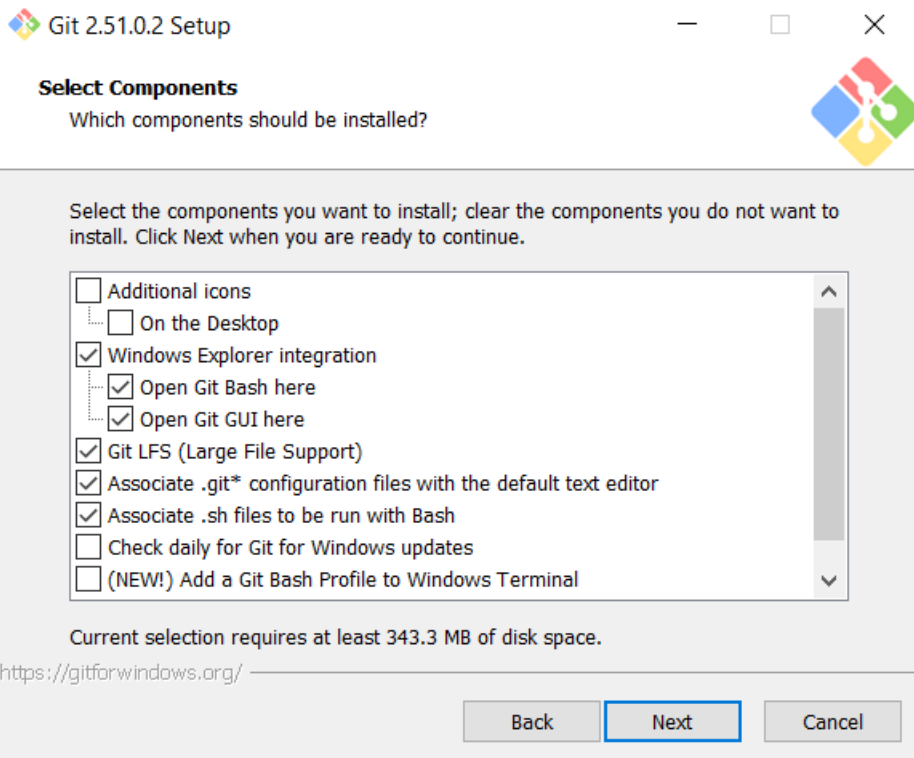
REGISTRATION #: 2023-BSE-061

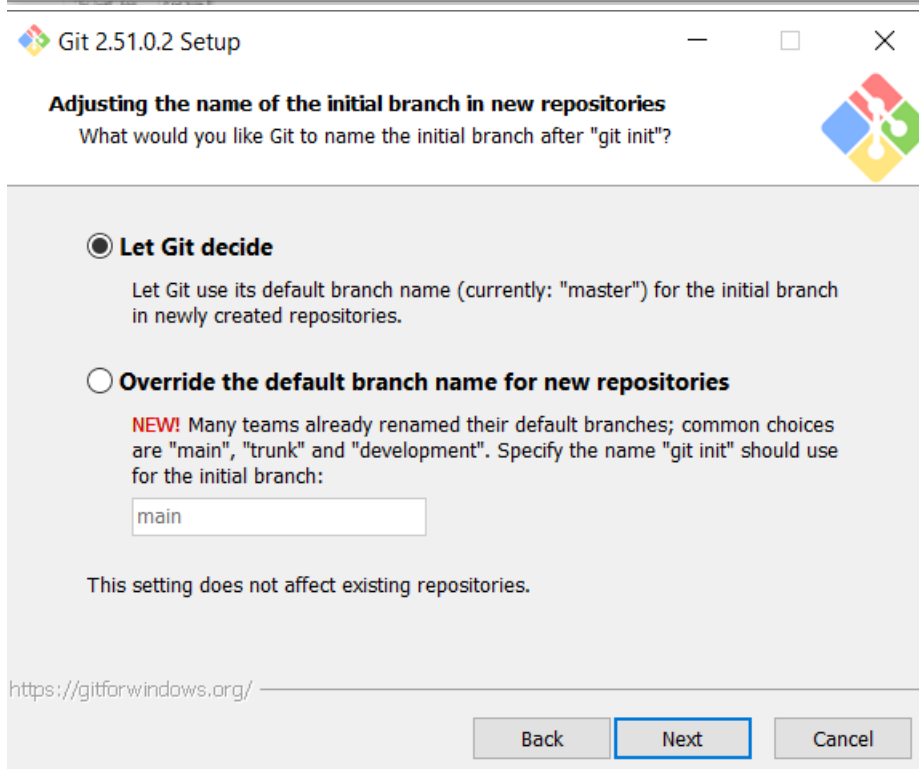
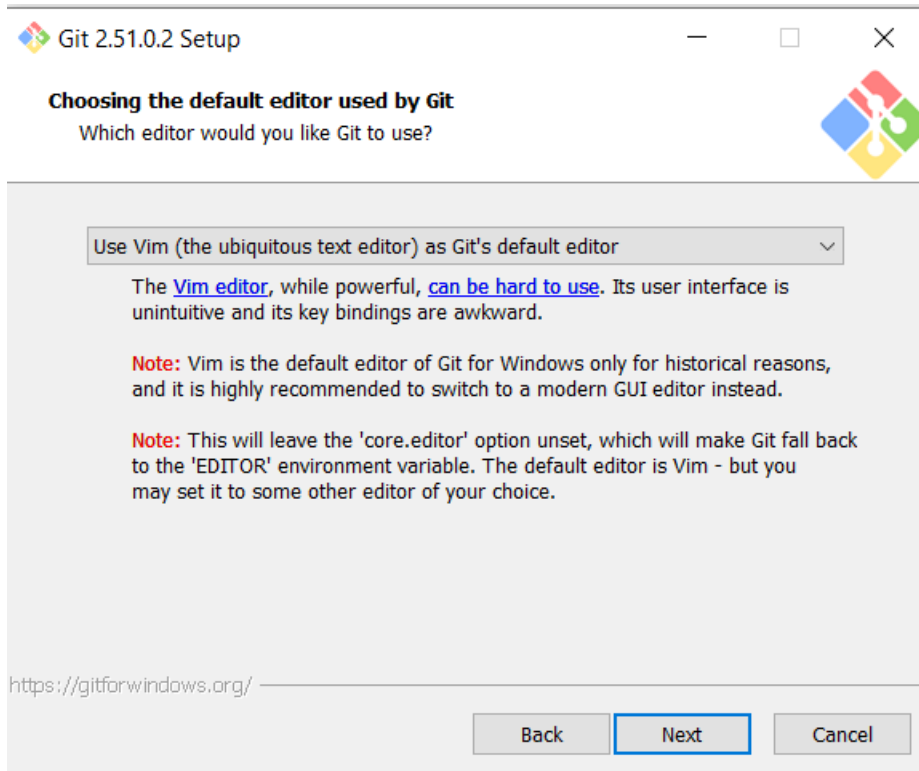
DEPARTMENT: BSE(5B)

LAB TASK

Git Installation:







Adjusting your PATH environment

How would you like to use Git from the command line?

☐ **Use Git from Git Bash only**

This is the most cautious choice as your PATH will not be modified at all. You will only be able to use the Git command line tools from Git Bash.

☒ **Git from the command line and also from 3rd-party software**

(Recommended) This option adds only some minimal Git wrappers to your PATH to avoid cluttering your environment with optional Unix tools. You will be able to use Git from Git Bash, the Command Prompt and the Windows PowerShell as well as any third-party software looking for Git in PATH.

☐ **Use Git and optional Unix tools from the Command Prompt**

Both Git and the optional Unix tools will be added to your PATH.

Warning: This will override Windows tools like "find" and "sort". Only use this option if you understand the implications.

<https://gitforwindows.org/>

Back

Next

Cancel

Choosing HTTPS transport backend

Which SSL/TLS library would you like Git to use for HTTPS connections?

☐ **Use the OpenSSL library**

Server certificates will be validated using the ca-bundle.crt file.

☒ **Use the native Windows Secure Channel library**

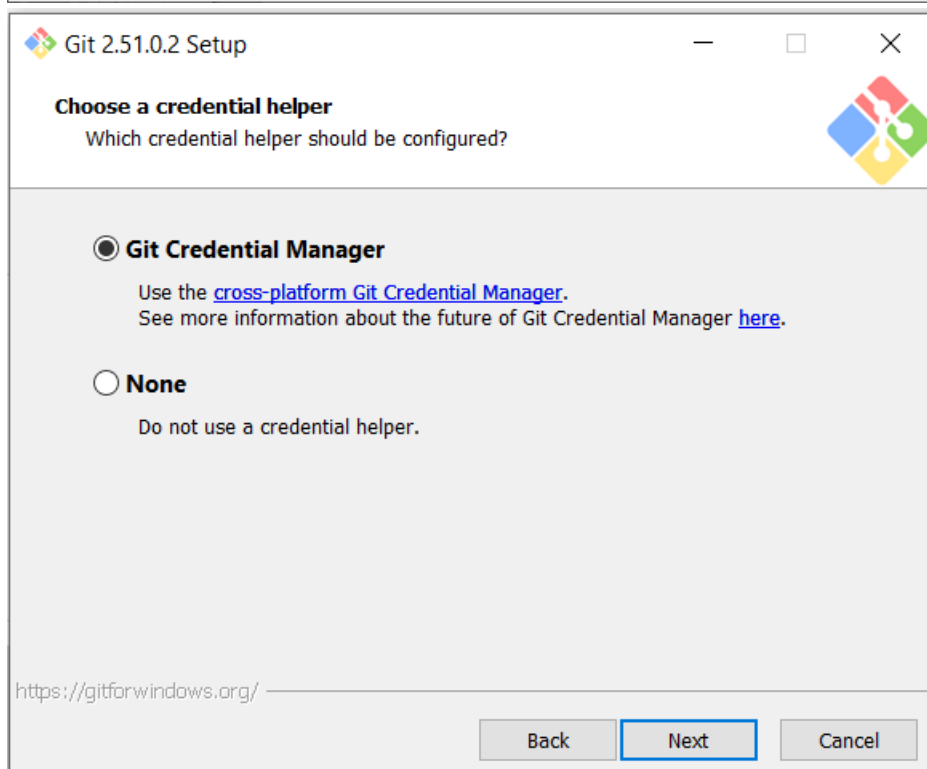
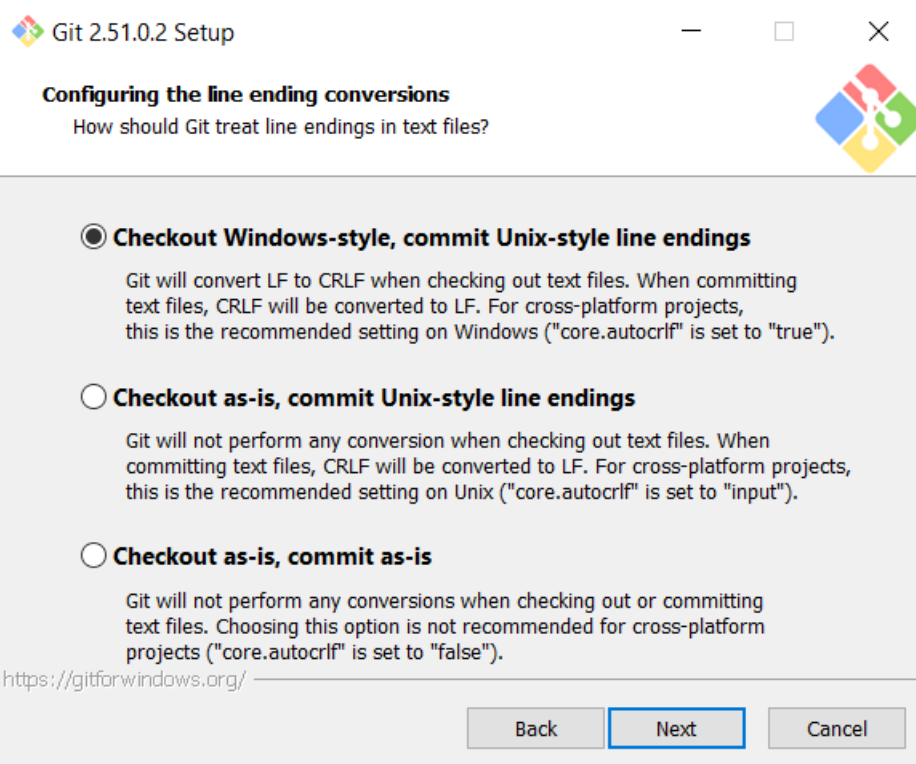
Server certificates will be validated using Windows Certificate Stores. This option also allows you to use your company's internal Root CA certificates distributed e.g. via Active Directory Domain Services.

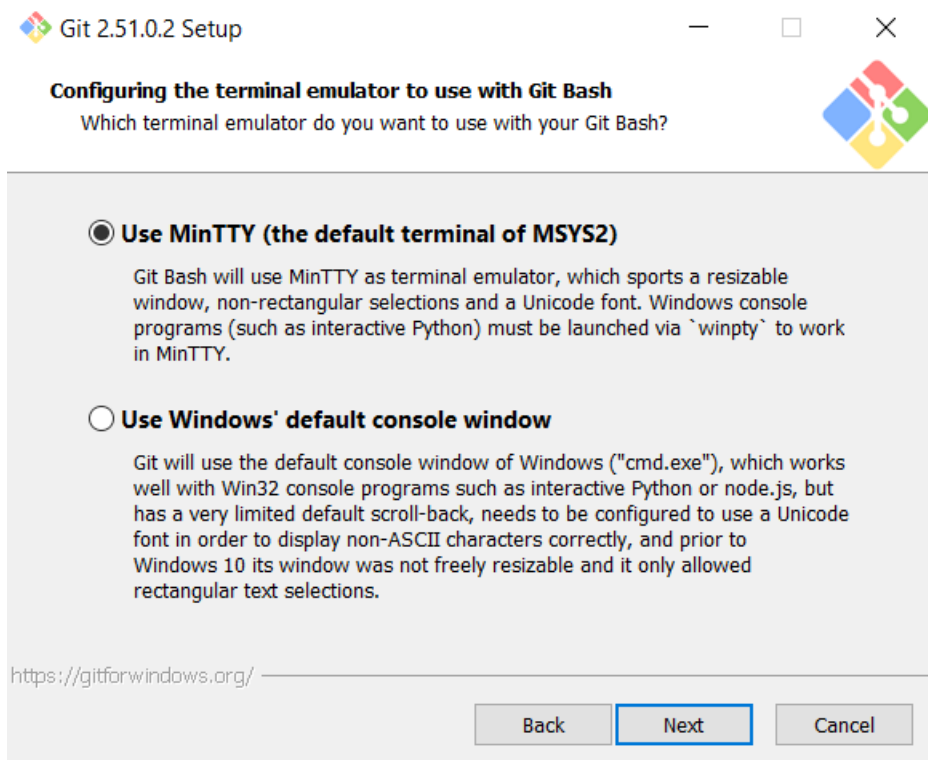
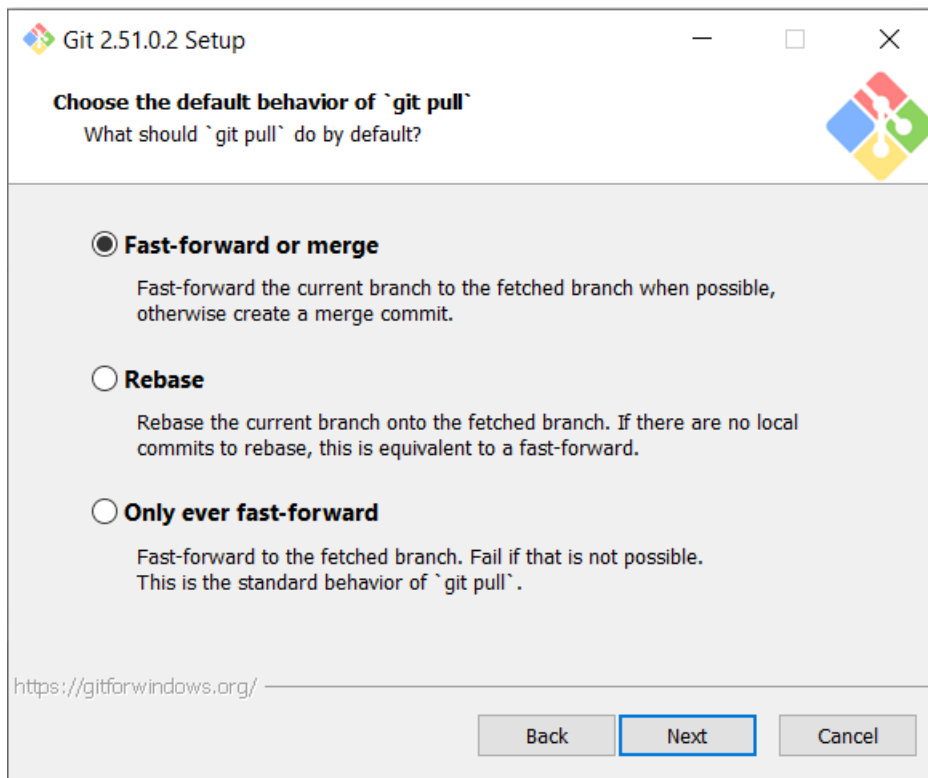
<https://gitforwindows.org/>

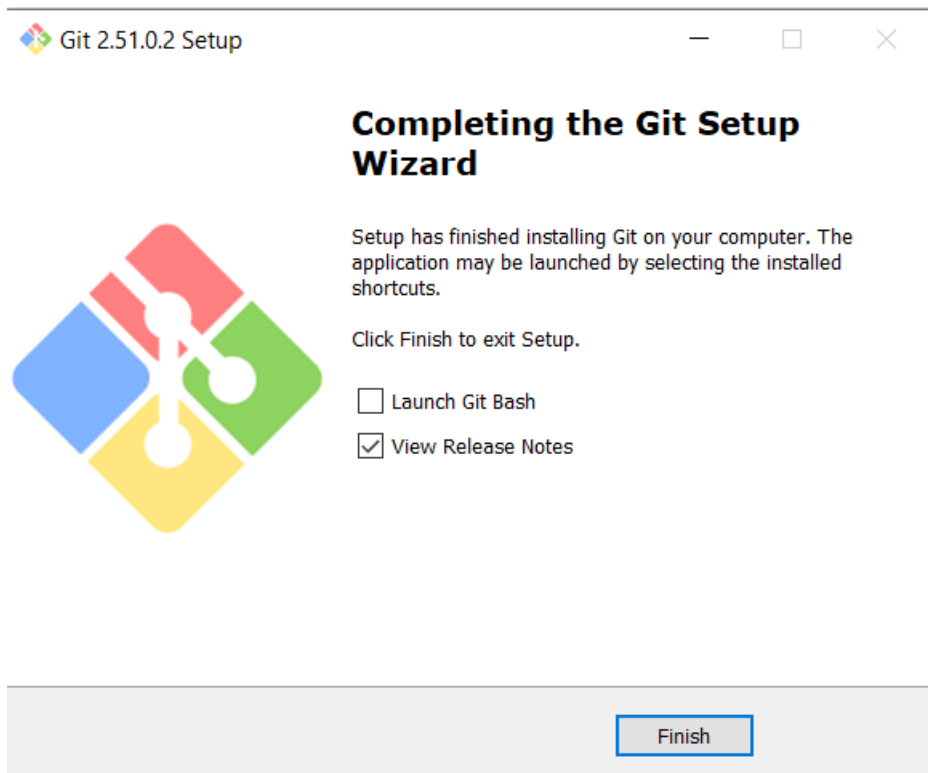
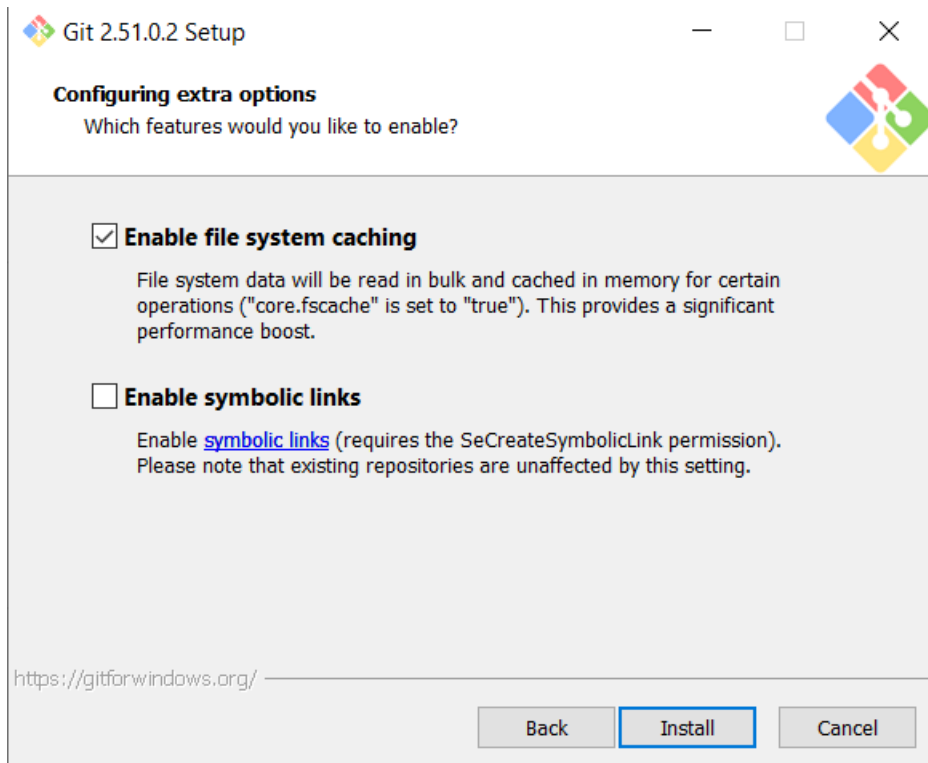
Back

Next

Cancel







- **Task 1:**

```
Syed@DESKTOP-S50GK51 MINGW64 ~  
$ git --version  
git version 2.51.0.windows.2  
  
Syed@DESKTOP-S50GK51 MINGW64 ~  
$ |
```

23-22411-061-rgb / lab-2 Type to search

Code Issues Pull requests Actions Projects Security Insights Settings

General

Access

Collaborators

Code and automation

General

Repository name

Lab-2

Danger Zone

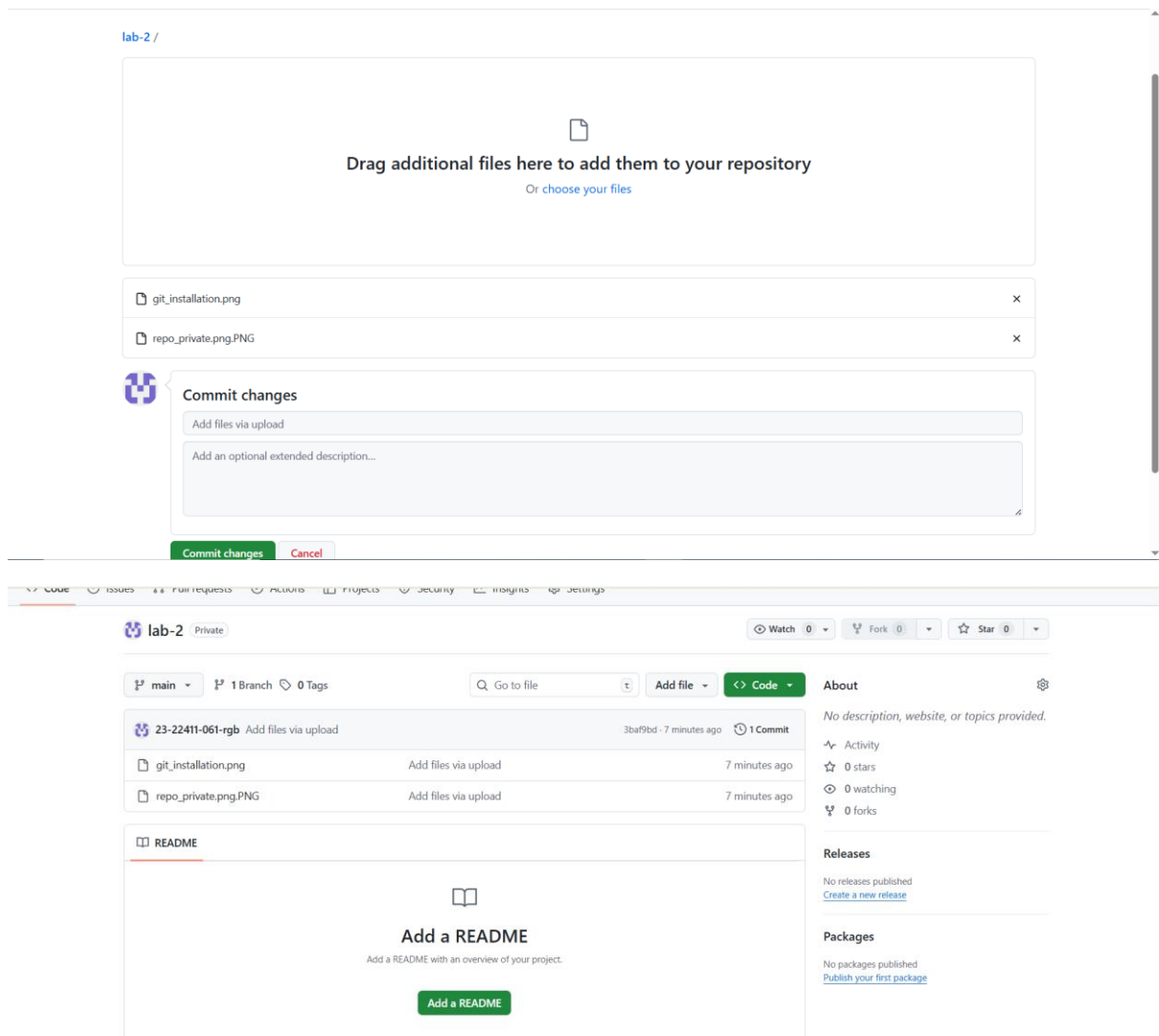
Change repository visibility
This repository is currently private.

Disable branch protection rules
Disable branch protection rules enforcement and APIs

Transfer ownership
Transfer this repository to another user or to an organization where you have the ability to create repositories.

Archive this repository
Mark this repository as archived and read-only.

Delete this repository
Once you delete a repository, there is no going back. Please be certain.



- **Task 2:**



The screenshot shows a Notepad application window with the title 'id_ed25519 - Notepad'. The menu bar includes 'File', 'Edit', 'Format', 'View', and 'Help'. The text area contains a single line of text: 'ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIElKNIOzmnwAMcQVGS00zeNE3EZLjq1DRN110xFrSum+ 23-22411-061@se.fjwu.edu.pk'. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.



23-22411-061-rgb (23-22411-061-rgb)
Your personal account

[Go to your personal profile](#)

- Public profile
- Account
- Appearance
- Accessibility
- Notifications

Access

- Billing and licensing
- Emails
- Password and authentication
- Sessions
- SSH and GPG keys**
- Organizations
- Enterprises
- Moderation

Code, planning, and automation

Repositories

SSH keys

[New SSH key](#)

There are no SSH keys associated with your account.

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

GPG keys

[New GPG key](#)

There are no GPG keys associated with your account.

Learn how to [generate a GPG key and add it to your account](#).

Vigilant mode

☐ Flag unsigned commits as unverified

This will include any commit attributed to your account but not signed with your GPG or S/MIME key. Note that this will include your existing unsigned commits. [Learn about vigilant mode.](#)



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- Organizations
- Enterprises
- Moderation

Code, planning, and automation

Add new SSH Key

Title

My Laptop Key

Key type

Authentication Key

Key

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIEKNI0ZmnwAMcQVGS0OzeNE3EZlqIDRN1IOxFrSUM+ 23-22411-061@se.fjwu.edu.pk

[Add SSH key](#)

You have successfully added the key 'My Laptop Key'.



23-22411-061-rgb (23-22411-061-rgb)
Your personal account

[Go to your personal profile](#)

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Access

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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



My Laptop Key

SHA256:hutBtEBXa0513McxS6vArYjDEKtUfoSQ7ud7sbb148u

Added on Oct 3, 2025

Never used — Read/write

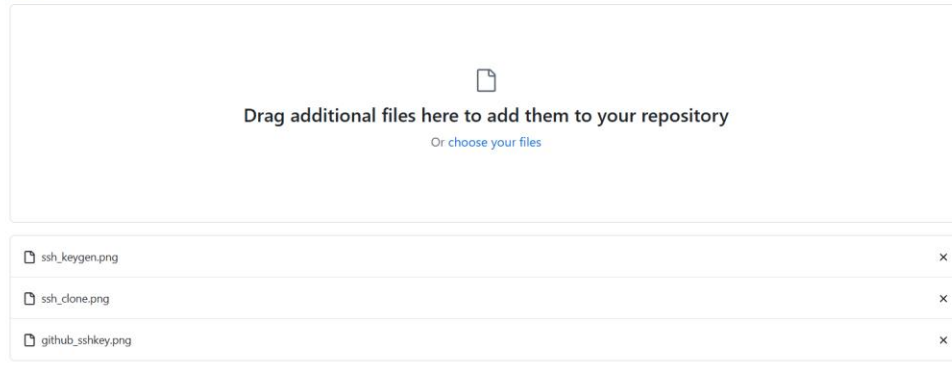
[Delete](#)

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

```
PS C:\Users\Syed\.ssh> ssh -T git@github.com
Hi 23-22411-061-rgb! You've successfully authenticated, but GitHub does not provide shell access.
PS C:\Users\Syed\.ssh>
```

```
PS C:\Users\Syed\Documents> git clone git@github.com:23-22411-061-rgb/lab-2.git
Cloning into 'lab-2'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (4/4), 44.26 KiB | 154.00 KiB/s, done.
PS C:\Users\Syed\Documents>
```

lab-2 /



• Task 3:

```
PS C:\Users\Syed\Documents> git config --global user.name "Shumail Zahra"
PS C:\Users\Syed\Documents> git config --global user.email "23-22411-061@se.fjwu.edu.pk"
PS C:\Users\Syed\Documents>
```

```
PS C:\Users\Syed\Documents> 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
gui.recentrepo=C:/Users/Syed/xxxxxx
gui.recentrepo=C:/Users/Syed/Lab2
gui.recentrepo=C:/Users/Syed/Pictures/lab 2
user.email=23-22411-061@se.fjwu.edu.pk
user.name=Shumail Zahra
PS C:\Users\Syed\Documents>
```

•

```
PS C:\Users\Syed\Documents\lab-2> Move-Item "git_installation.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "repo_private.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "ssh_keygen.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "github_sshkey.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "ssh_clone.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "git_identity.png" "$env:USERPROFILE\Documents\lab-2"
>> Move-Item "git_config_list.png" "$env:USERPROFILE\Documents\lab-2"
>>
PS C:\Users\Syed\Documents\lab-2> cd $env:USERPROFILE\Documents\lab-2
>>
PS C:\Users\Syed\Documents\lab-2> git add *.png
>>
PS C:\Users\Syed\Documents\lab-2> git commit -m "Added all lab screenshots"
>>
[main 80c989d] Added all lab screenshots
7 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 git_config_list.png
create mode 100644 git_identity.png
create mode 100644 git_installation.png
create mode 100644 github_sshkey.png
create mode 100644 repo_private.png
create mode 100644 ssh_clone.png
create mode 100644 ssh_keygen.png
```

```

PS C:\Users\Syed\Documents\lab-2> cd $env:USERPROFILE\Documents\lab-2
PS C:\Users\Syed\Documents\lab-2> git add *.png
PS C:\Users\Syed\Documents\lab-2> git commit -m "Added all lab screenshots"
>>
[detached HEAD 6ddb7e] Added all lab screenshots
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 git_installation.png
PS C:\Users\Syed\Documents\lab-2> git pull origin main --rebase
From github.com:23-22411-061-rgb/lab-2
* branch          main          -> FETCH_HEAD
fatal: It seems that there is already a rebase-merge directory, and
I wonder if you are in the middle of another rebase. If that is the
case, please try
    git rebase (--continue | --abort | --skip)
If that is not the case, please
    rm -fr ".git/rebase-merge"
and run me again. I am stopping in case you still have something
valuable there.

PS C:\Users\Syed\Documents\lab-2> git rebase --continue
>>
Successfully rebased and updated refs/heads/main.
PS C:\Users\Syed\Documents\lab-2> git pull origin main --rebase
>>
From github.com:23-22411-061-rgb/lab-2
* branch          main          -> FETCH_HEAD
Current branch main is up to date.
PS C:\Users\Syed\Documents\lab-2>
PS C:\Users\Syed\Documents\lab-2> git push origin main
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), 427 bytes | 427.00 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:23-22411-061-rgb/lab-2.git
   0ba4493..9c3a1b2  main -> main
PS C:\Users\Syed\Documents\lab-2> git log --oneline
>>
9c3a1b2 (HEAD -> main, origin/main, origin/HEAD) Added all lab screenshots
6ddb7e Added all lab screenshots

```

bug

```

>>
9c3a1b2 (HEAD -> main, origin/main, origin/HEAD) Added all lab screenshots
6ddbb7e Added all lab screenshots
0ba4493 Add files via upload
d806aa2 Add files via upload
956ef3e Delete ssh_keygen.png
87a2995 Delete ssh_clone.png
46d68ac Delete repo_private.png.PNG
ed009f8 Delete github_sshkey.png
034d803 Delete git_installation.png
75b4d48 Delete git_identity.png..PNG
dfa591f Delete git_config_list.png..PNG
7b2b1fa Add files via upload
a873e46 Add files via upload
3baf9bd Add files via upload
PS C:\Users\Syed\Documents\lab-2> git status
>>
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\Syed\Documents\lab-2> cd $env:USERPROFILE\Documents\lab-2
>> git add git_identity.png git_config_list.png
>> git commit -m "Added Git identity and config screenshots"
>> git push origin main
>>
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
Everything up-to-date

```

```

PS C:\Users\Syed\Documents\lab-2> dir *.png

```

Directory: C:\Users\Syed\Documents\lab-2

Mode	LastWriteTime	Length	Name
-a----	10/3/2025 8:39 AM	55672	github_sshkey.png
-a----	10/3/2025 9:33 AM	193471	git_config_list.png
-a----	10/3/2025 9:36 AM	16860	git_identity.png
-a----	10/3/2025 10:05 AM	8777	git_installation.png
-a----	10/3/2025 9:25 AM	46191	repo_private.png
-a----	10/3/2025 8:45 AM	20195	ssh_clone.png
-a----	10/3/2025 8:47 AM	44502	ssh_keygen.png

- **Task 4:**

```
PS C:\Users\Syed\Documents\lab-2> cd $env:USERPROFILE\Documents\lab-2
>>
PS C:\Users\Syed\Documents\lab-2> ls -Force
>>
```

Directory: C:\Users\Syed\Documents\lab-2

Mode	LastWriteTime	Length	Name
d--h--	10/3/2025 10:12 AM		.git
-a----	10/3/2025 8:39 AM	55672	github_sshkey.png
-a----	10/3/2025 9:33 AM	193471	git_config_list.png
-a----	10/3/2025 9:36 AM	16860	git_identity.png
-a----	10/3/2025 10:05 AM	8777	git_installation.png
-a----	10/3/2025 9:25 AM	46191	repo_private.png
-a----	10/3/2025 8:45 AM	20195	ssh_clone.png
-a----	10/3/2025 8:47 AM	44502	ssh_keygen.png


```
PS C:\Users\Syed\Documents\lab-2> Get-ChildItem -Force .git
>>
```

Directory: C:\Users\Syed\Documents\lab-2\.git

Mode	LastWriteTime	Length	Name
d----	10/3/2025 8:44 AM		hooks
d----	10/3/2025 8:44 AM		info
d----	10/3/2025 8:44 AM		logs
d----	10/3/2025 10:05 AM		objects
d----	10/3/2025 8:44 AM		refs
-a----	10/3/2025 10:12 AM	42	COMMIT_EDITMSG
-a----	10/3/2025 8:44 AM	300	config
-a----	10/3/2025 8:44 AM	73	description
-a----	10/3/2025 10:05 AM	93	FETCH_HEAD
-a----	10/3/2025 10:05 AM	21	HEAD
-a----	10/3/2025 10:12 AM	641	index
-a----	10/3/2025 9:57 AM	41	ORIG_HEAD
-a----	10/3/2025 8:44 AM	112	packed-refs

```
PS C:\Users\Syed\Documents\lab-2> ls -Force .git
>>
```

Directory: C:\Users\Syed\Documents\lab-2\.git

Mode	LastWriteTime	Length	Name
d----	10/3/2025 8:44 AM		hooks
d----	10/3/2025 8:44 AM		info
d----	10/3/2025 8:44 AM		logs
d----	10/3/2025 10:05 AM		objects
d----	10/3/2025 8:44 AM		refs
-a----	10/3/2025 10:12 AM	42	COMMIT_EDITMSG
-a----	10/3/2025 8:44 AM	300	config
-a----	10/3/2025 8:44 AM	73	description
-a----	10/3/2025 10:05 AM	93	FETCH_HEAD
-a----	10/3/2025 10:05 AM	21	HEAD
-a----	10/3/2025 10:12 AM	641	index
-a----	10/3/2025 9:57 AM	41	ORIG_HEAD
-a----	10/3/2025 8:44 AM	112	packed-refs

- **Task 5:**

```
MINGW64:/c/Users/Syed
Syed@DESKTOP-S50GK51 MINGW64 ~
$ rm -rf .git

Syed@DESKTOP-S50GK51 MINGW64 ~
$ |
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~
$ git init
Initialized empty Git repository in C:/Users/Syed/.git/

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ |
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ echo "# Lab 2 Git Practice" > README.md

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git commit -m "Initial commit"
[master (root-commit) 3afd596] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git remote add origin git@github.com:23-22411-061-rgb/lab-2.git

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'github.com:23-22411-061-rgb/lab-2.git'

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 245 bytes | 61.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/23-22411-061-rgb/lab-2/pull/new/master
remote:
To github.com:23-22411-061-rgb/lab-2.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

- **Task 6:**

```

PS C:\Users\Syed\Documents\lab-2> notepad notes.txt
PS C:\Users\Syed\Documents\lab-2> git status
On branch main
Your branch is up to date with 'origin/main'.

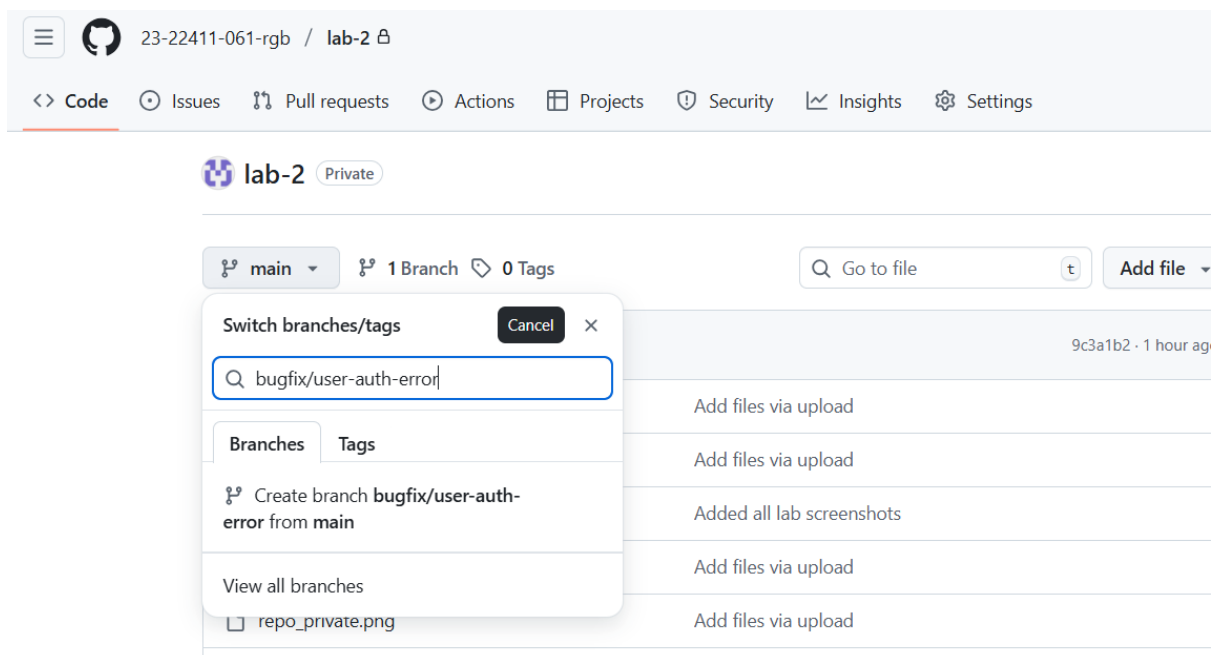
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        notes.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Syed\Documents\lab-2>

PS C:\Users\Syed\Documents\lab-2> git add notes.txt
PS C:\Users\Syed\Documents\lab-2> git commit -m "Add notes.txt"
[main ef581ad] Add notes.txt
 1 file changed, 1 insertion(+)
 create mode 100644 notes.txt
PS C:\Users\Syed\Documents\lab-2>

```

- **Task 7:**



The screenshot shows the GitHub interface for a repository named 'lab-2'. A modal titled 'Switch branches/tags' is open, displaying a search bar with the text 'bugfix/user-auth-error'. Below the search bar, there are tabs for 'Branches' and 'Tags'. Under the 'Branches' tab, there is an option to 'Create branch bugfix/user-auth-error from main'. Other options include 'View all branches' and a checkbox for 'repo_private.png'. The background shows the repository's file list with several 'Add files via upload' entries.

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (main)
$ cd ~/Documents/lab-2

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git pull origin bugfix/user-auth-error
From github.com:23-22411-061-rgb/lab-2
 * branch                bugfix/user-auth-error -> FETCH_HEAD
 * [new branch]          bugfix/user-auth-error -> origin/bugfix/user-auth-error
Already up to date.

```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (bugfix/user-auth-error)
$ git branch
* bugfix/user-auth-error
  main

```

- Task 8:

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (bugfix/user-auth-error)
$ git checkout -b feature/db-connection
Switched to a new branch 'feature/db-connection'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (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/23-22411-061-rgb/lab-2/pull/new/feature/db-conne
remote:      ction
remote:
To github.com:23-22411-061-rgb/lab-2.git
 * [new branch]      feature/db-connection -> feature/db-connection
```

- Task 9

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git checkout -b feature-1
fatal: a branch named 'feature-1' already exists

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git branch
  bugfix/user-auth-error
  feature-1
  feature/db-connection
* main
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git add main.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git commit -m "Add new function to main.py"
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git commit -m "Add new function to main.py"
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git push origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 700 bytes | 87.00 KiB/s, done.
Total 8 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:23-22411-061-rgb/lab-2.git
  9c3a1b2..d6bb084  main -> main
```

```

MINGW64/c/Users/Syed/Documents/lab-2
Merge branch 'feature-1'
# Please enter a commit message to explain why this merge is necessary,
# especially if it merges an updated upstream into a topic branch.
#
# Lines starting with '#' will be ignored, and an empty message aborts
# the commit.

```

```
merge branch 'feature-1'
```

```
Merge made by the 'ort' strategy.  
main.py | 1  
1 file changed, 1 insertion(+)  
create mode 100644 main.py
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git merge feature-1
Already up to date.
```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$
$

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (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/23-22411-061-rgb/lab-2/pull/new/feature-1
remote:
To github.com:23-22411-061-rgb/lab-2.git
 * [new branch]      feature-1 -> feature-1

```

• Task 10:

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).

base: feature/db-connection ← compare: main ✓ Able to merge. These branches can be automatically merged.

Add a title

Add a description

Write

Preview

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Add your description here...

Markdown is supported

Paste, drop, or click to add files

Reviewers

No reviews

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Use [Closing keywords](#) in the description to automatically close issues

Helpful resources

[GitHub Community Guidelines](#)

Create pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

base: feature/db-connection ← compare: main ✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

3 commits
2 files changed
1 contributor

Commits on Oct 3, 2025

Add notes.txt

23-22411-061-rgb committed 1 hour ago

ef581ad

Add new function to main.py

23-22411-061-rgb committed 31 minutes ago

5b3519f

Merge branch 'feature-1'

23-22411-061-rgb committed 29 minutes ago

d6bb084

Showing 2 changed files with 2 additions and 0 deletions.

Split Unified

main.py

...

1

+ print('Hello World')

notes.txt

...

1

+ abc

my pull request #1

Merged

23-22411-061-rgb merged 3 commits into `feature/db-connection` from `main` 1 minute ago

Conversation 0

Commits 3

Checks 0

Files changed 2

+2 -0

23-22411-061-rgb commented 2 minutes ago

lab

23-22411-061-rgb added 3 commits 1 hour ago

Add notes.txt

Add new function to main.py

Merge branch 'feature-1'

23-22411-061-rgb merged commit 0458941 into `feature/db-connection` 1 minute ago

Revert

Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Pull request successfully merged and closed

You're all set — the branch has been merged.

Open

my pull request #1

23-22411-061-rgb wants to merge 3 commits into `feature/db-connection` from `main`

Add new function to main.py

5b3519f

Merge branch 'feature-1'

d6bb084

Commit message

Merge pull request #1 from 23-22411-061-rgb/main

Extended description

my pull request

This commit will be authored by 23-22411-061@se.fjwu.edu.pk.

Confirm merge

Cancel

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

Unsubscribe

You're receiving notifications because you authored the thread.

1 participant

Code

Issues

Pull requests 1

Actions

Projects

Security

Insights

Settings

pull request" #2

Merged

23-22411-061-rgb merged 1 commit into `feature/db-connection` from `revert-1-main` now

Conversation 0

Commits 1

Checks 0

Files changed 2

+0 -2

23-22411-061-rgb commented now

Reverts #1

Revert "my pull request"

Verified

8bea14c

23-22411-061-rgb merged commit b403693 into `feature/db-connection` now

Revert

Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

Pull request successfully merged and closed

You're all set — the `revert-1-main` branch can be safely deleted.

Delete branch

- Task 11:

CREATION BRANCHES:

23

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git pull origin main
From github.com:23-22411-061-rgb/lab-2
* branch      main       -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git checkout -b develop
Switched to a new branch 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git push 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/23-22411-061-rgb/lab-2/pull/new/develop
remote:
To github.com:23-22411-061-rgb/lab-2.git
* [new branch]      develop -> develop

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout -b staging
Switched to a new branch 'staging'
g
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git push 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/23-22411-061-rgb/lab-2/pull/new/staging
remote:
To github.com:23-22411-061-rgb/lab-2.git
* [new branch]      staging -> staging

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git checkout develop
Switched to branch 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout -b feature/login-page
Switched to a new branch 'feature/login-page'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (feature/login-page)
$ git push origin feature/login-page
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/login-page' on GitHub by visiting:
remote:   https://github.com/23-22411-061-rgb/lab-2/pull/new/feature/login-page
remote:
To github.com:23-22411-061-rgb/lab-2.git
* [new branch]      feature/login-page -> feature/login-page

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (feature/login-page)
$ git checkout develop
Switched to branch 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout develop
Already on 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout -b bugfix/header-error
Switched to a new branch 'bugfix/header-error'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (bugfix/header-error)
$ git push origin bugfix/header-error
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'bugfix/header-error' on GitHub by visiting:
remote:   https://github.com/23-22411-061-rgb/lab-2/pull/new/bugfix/header-error
remote:
To github.com:23-22411-061-rgb/lab-2.git
* [new branch]      bugfix/header-error -> bugfix/header-error

```


Example workflow:

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (bugfix/header-error)
$
git checkout develop
Switched to branch 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout -b feature/login-page
fatal: a branch named 'feature/login-page' already exists

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git add main.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git commit -m"Add login page function"
On branch develop
nothing to commit, working tree clean

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git push origin feature/login-page
Everything up-to-date
```

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout develop
git pull origin develop
git merge feature/login-page
git push origin develop
Already on 'develop'
From github.com:23-22411-061-rgb/lab-2
 * branch          develop    -> FETCH_HEAD
Already up to date.
Already up to date.
Everything up-to-date
```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout develop
Already on 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git pull origin develop
From github.com:23-22411-061-rgb/lab-2
 * branch          develop    -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git merge feature/login-page
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git push origin develop
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout staging
Switched to branch 'staging'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git pull origin staging
From github.com:23-22411-061-rgb/lab-2
 * branch          staging    -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git merge develop
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git push origin staging
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git pull origin main
From github.com:23-22411-061-rgb/lab-2
 * branch          main      -> FETCH_HEAD
Already up to date.
gin
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git merge staging
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git push origin main
Everything up-to-date

```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (develop)
$ git checkout staging
Switched to branch 'staging'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git pull origin staging
From github.com:23-22411-061-rgb/lab-2
 * branch          staging    -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git merge develop
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git push origin staging
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (staging)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git pull origin main
From github.com:23-22411-061-rgb/lab-2
 * branch          main      -> FETCH_HEAD
Already up to date.
gin
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git merge staging
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ |

```

➤ Bonus

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ 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/23-22411-061-rgb/lab-2/pull/new/collab
remote:
To github.com:23-22411-061-rgb/lab-2.git
 * [new branch]    collab -> collab

```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git checkout collab
git pull origin collab
Already on 'collab'
From github.com:23-22411-061-rgb/lab-2
* branch      collab      -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git add notes.txt
git commit -m "Add Shumail's fun fact"
git push origin collab
On branch collab
nothing to commit, working tree clean
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git add notes.txt

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git commit -m "Add Shumail's fun fact"
On branch collab
nothing to commit, working tree clean

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git push origin collab
Everything up-to-date

```

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (collab)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git pull origin main
From github.com:23-22411-061-rgb/lab-2
* branch      main      -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git merge collab
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/lab-2 (main)
$ git push origin main
Everything up-to-date

```

- Task 12: word


Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).

base: main

compare: feature/api-endpoint

✓ Able to merge. These branches can be automatically merged.



Add a title

Add draft note for API endpoint











Reviewers

No reviews


Add a description

Write

Preview

H B I          

123

Markdown is supported  Paste, drop, or click to add files

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Use [Closing keywords](#) in the description to automatically close issues

Helpful resources

Create pull request

General

Access

Collaborators

Code and automation

Branches

Tags

Rules

Actions

Models

Webhooks

Copilot

Environments

Codespaces

Pages

Security

Advanced Security

Deploy keys

Secrets and variables

Collaborators and teams



Private repository

Only those with access to this repository can view it

Manage visibility

Direct access



2 entities have access to this repository. [0 collaborators](#), [2 invitations](#).

Manage access

Add people

☐ Select all

Type ▾



Find a collaborator...



23-22411-057-sudo


Awaiting 23-22411-057-sudo's response

Pending Invite 



Sadaf Riaz

Awaiting SadafRiaz-077's response

Pending Invite 





[23-22411-061-rgb](#) invited you to collaborate on
23-22411-061-rgb/lab-2

Accept invitation

Decline invitation

Owners of lab-2 will be able to see:

- Your public profile information
- [Certain activity](#) within this repository
- Country of request origin
- Your access level for this repository
- Your IP address

Is this user sending spam or malicious content?
[Block 23-22411-061-rgb](#)

lab-2 PrivateWatch

main 11 Branches 0 Tags

Add file

Code

23-22411-061-rgb Merge branch 'feature-1' d6bb084 · 10 hours ago 17 Commits

git_config_list.png	Add files via upload	13 hours ago
git_identity.png	Add files via upload	13 hours ago
git_installation.png	Added all lab screenshots	12 hours ago
github_sshkey.png	Add files via upload	13 hours ago
main.py	Add new function to main.py	11 hours ago
notes.txt	Add notes.txt	11 hours ago
repo_private.png	Add files via upload	13 hours ago
ssh_clone.png	Add files via upload	13 hours ago
ssh_keygen.png	Add files via upload	13 hours ago

Add feature2.py #3

23-22411-057-sudo wants to merge 1 commit into `main` from `feature-2`

Conversation 0 Commits 1 Checks 0 Files changed 1

Changes from all commits File filter Conversations Jump to

1 feature2.py

```
... @@ -0,0 +1 @@
1 + Print('Feature 2')
```

Write Preview

"Please fix function name and add error handling."

Markdown is supported Paste, drop, or click to add files

Cancel Add single comment Start a review

2 notes.txt

```
... @@ -1 +1 @@
1 - abc
```

Write Preview

Leave a comment

Markdown is supported Paste, drop, or click to add files

Cancel Add review comment

1 + abcAPI endpoint draft

23-22411-057-sudo Pending

Please fix function name and add error handling

23-22411-057-sudo Pending

please fix function names and add error handling

Reply...

1. Reviewer Actions and Approves:

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ git checkout feature-hello
error: pathspec 'feature-hello' did not match any file(s) known to git

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ AC

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ git checkout -b feature-hello
Switched to a new branch 'feature-hello'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ echo "def say_hello():\n    print('Hello World')" > main.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ cat main.py
def say_hello():\n    print('Hello world')

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ git add main.py
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ git commit -m "Add say_hello function with fixed message"
[feature-hello 9d1eb44] Add say_hello function with fixed message
1 file changed, 1 insertion(+), 1 deletion(-)

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ git push origin feature-hello
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 331 bytes | 66.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-hello' on GitHub by visiting:
remote:   https://github.com/23-22411-057-sudo/Lab2/pull/new/feature-hello
remote:
To github.com:sudo:23-22411-057-sudo/Lab2.git
 * [new branch]      feature-hello -> feature-hello

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ |
```

1. Update the file main.py


```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ echo "def say_hello(name):" > main.py
echo "    print(f\"Hello {name}\")" >> main.py
echo "" >> main.py
echo "if __name__ == \"__main__\":" >> main.py
echo "    say_hello(\"Shumail\")" >> main.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ cat main.py
def say_hello(name):
    print(f"Hello {name}")

if __name__ == "__main__":
    say_hello("Shumail")

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git add main.py
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next
time Git touches it


Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git commit -m "Update say_hello test to use 'Shumail'"
[main 89beb98] Update say_hello test to use 'Shumail'
1 file changed, 5 insertions(+), 1 deletion(-)


Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git push origin feature-hello
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ |

```


Merge the PR:























No conflicts with base branch
Merging can be performed automatically.

Merge pull request You can also merge this with the command line. [View command line instructions.](#)






Add a comment

Write Preview

H B I                  


Add your comment here...


 Markdown is supported  Paste, drop, or click to add files

 Close pull request

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).


 **ProTip!** Add comments to specific lines under [Files changed](#).



Pull request successfully merged and closed













You're all set — the `feature/api-endpoint` branch can be safely deleted.

Delete branch





Add a comment


WritePreview


H B I            

Add your comment here...

 Markdown is supported  Paste, drop, or click to add files


Comment

 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

 **ProTip!** Add comments to specific lines under [Files changed](#).

2. Branch handling after merge


Delete the branch



Pull request successfully merged and closed













You're all set — the `feature-2` branch can be safely deleted.

Delete branch





Add a comment


WritePreview


H B I            

Add your comment here...

 Markdown is supported  Paste, drop, or click to add files

Comment

 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

 **ProTip!** Add `.patch` or `.diff` to the end of URLs for Git's plaintext views.

Keep the branch

- **Keep the branch if you plan more work on it.**
- **Document the reason in a file called `REVIEW_NOTES.md`**

34

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ echo "# REVIEW_NOTES.md" > REVIEW_NOTES.md
echo "" >> REVIEW_NOTES.md
echo "## feature-hello branch" >> REVIEW_NOTES.md
echo "- Kept after merge for possible future enhancements." >> REVIEW_NOTES.md
echo "- Original change: Updated say_hello() to accept a name parameter." >> REVIEW_NOTES.md

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ cat REVIEW_NOTES.md
# REVIEW_NOTES.md

## feature-hello branch
- Kept after merge for possible future enhancements.
- Original change: Updated say_hello() to accept a name parameter.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ git add REVIEW_NOTES.md
git commit -m "Add branch handling notes after PR merge"
git push origin feature-hello
warning: in the working copy of 'REVIEW_NOTES.md', LF will be replaced by CRLF the next time Git touches it
[feature-hello 1271070] Add branch handling notes after PR merge
1 file changed, 5 insertions(+)
create mode 100644 REVIEW_NOTES.md
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), 440 bytes | 88.00 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:sudo:23-22411-057-sudo/Lab2.git
289a0bd..1271070 feature-hello -> feature-hello

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)

```

• Task 13: Branch Cleanup Best Practices

Delete the Remote Branch via GitHub UI

The screenshot shows a GitHub pull request interface. At the top, a notification states: "23-22411-057-sudo deleted the feature-2 branch now". Below this, a message indicates: "Pull request successfully merged and closed. You're all set — the branch has been merged." There is a "Restore branch" button. The main section is titled "Add a comment" and includes a text area for writing a comment, a "Write" tab, a "Preview" tab, and a "Comment" button. At the bottom, there is a reminder: "Remember, contributions to this repository should follow our GitHub Community Guidelines." and a "ProTip!" section: "ProTip! Add .patch or .diff to the end of URLs for Git's plaintext views."

Git Bash command to verify deletion (optional)

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ git fetch -p
From github.com:sudo:23-22411-057-sudo/Lab2
- [deleted]          (none)           -> origin/feature-2
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (4/4), 3.42 KiB | 102.00 KiB/s, done.
   7eec70a..cfbe442  feature/db-connection -> origin/feature/db-connection
   a28b864..2d17804  main                 -> origin/main

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-hello)
$ |

```

Update your Local Repository

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git branch -d feature-hello
error: the branch 'feature-hello' is not fully merged
hint: If you are sure you want to delete it, run 'git branch -D feature-hello'
hint: Disable this message with "git config set advice.forceDeleteBranch false"

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git branch
bugfix/header-error
bugfix/user-auth-error
collab
develop
feature-1
feature-2
feature-hello
feature/db-connection
feature/login-page
* main
staging

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ |

```

Exam Evaluation Questions

Q1_branch_created

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (master)
$ git checkout -b Q1-branch
Switched to a new branch 'Q1-branch'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (Q1-branch)
$ |

```

Q1_commit_done

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (Q1-branch)
$ echo "This is a test for Q1" >> notes.txt

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (Q1-branch)
$ git add notes.txt
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the
next time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (Q1-branch)
$ git commit -m "Q1: Added test note"
[Q1-branch e59ac6b] Q1: Added test note
1 file changed, 1 insertion(+)
 create mode 100644 notes.txt

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab1 (Q1-branch)
$ |

```

Q1_merge_done

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (master)
$ git checkout -b Q1-branch
Switched to a new branch 'Q1-branch'

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ git checkout main
error: pathspec 'main' did not match any file(s) known to git

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ git merge Q1-branch
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ |

```

Q1_merge_history

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ git log --oneline --graph --decorate --all
* 4d64cc5 (HEAD -> Q1-branch, master) Initial commit

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ |

```

Q2_branches_created.

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ git checkout main
error: pathspec 'main' did not match any file(s) known to git

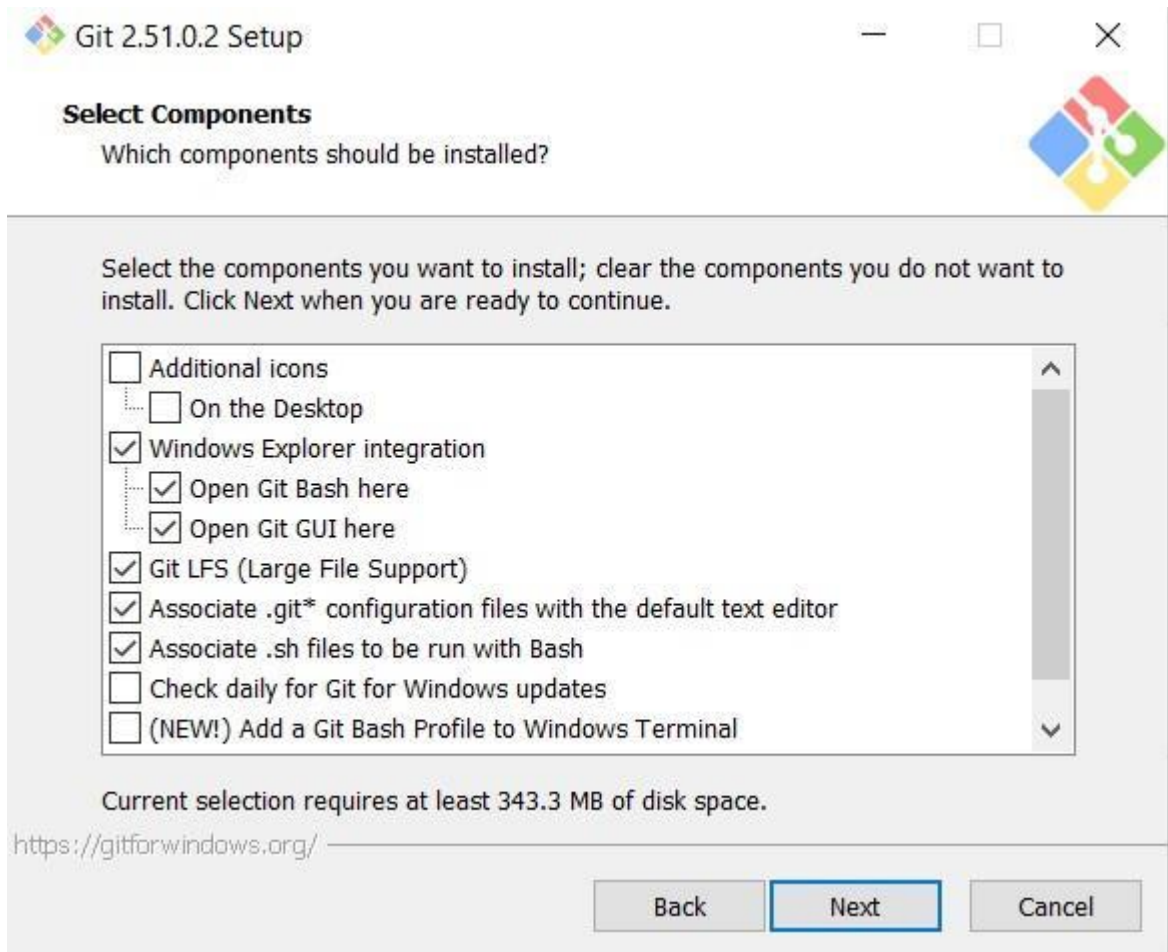
Syed@DESKTOP-S50GK51 MINGW64 ~ (Q1-branch)
$ git checkout -b develop
Switched to a new branch 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~ (develop)
$ git checkout -b staging
Switched to a new branch 'staging'

Syed@DESKTOP-S50GK51 MINGW64 ~ (staging)
$ |

```

Q2_feature_branch_commit



Q2_merge_into_develop

```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git checkout develop
Already on 'develop'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git pull origin develop
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          develop    -> FETCH_HEAD
Already up to date.
e
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git merge feature/login-page
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git push origin develop
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git push origin staging
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git merge develop
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git push origin staging
Everything up-to-date
m
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (develop)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git pull origin main
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          main      -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git merge staging
Already up to date.

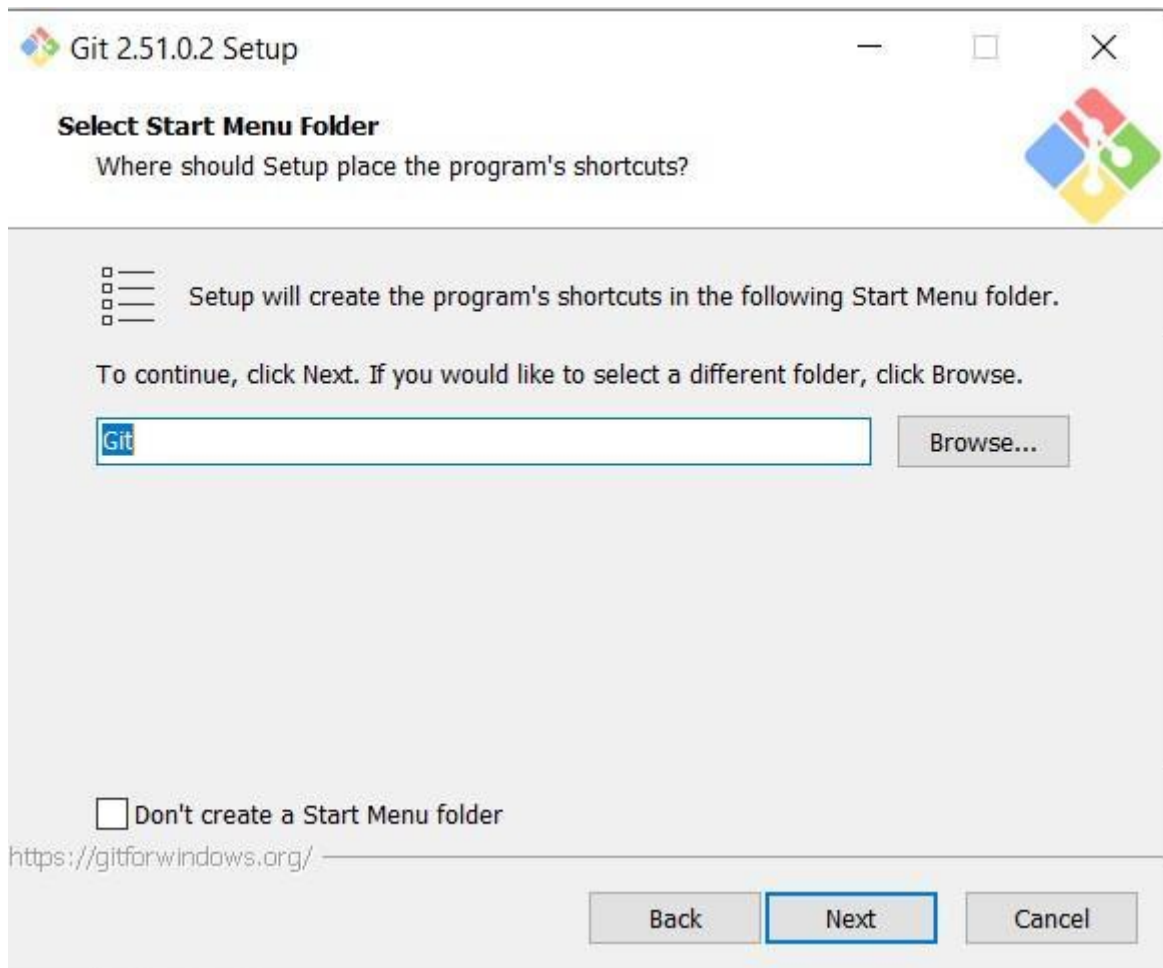
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git checkout staging
Switched to branch 'staging'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (staging)
$ git pull origin staging
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          staging    -> FETCH_HEAD

```

Q2_merge_into_staging



Q2_merge_into_main


```

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git pull origin main
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          main          -> FETCH_HEAD
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git merge staging
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git checkout staging
Switched to branch 'staging'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (staging)
$ git pull origin staging
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          staging       -> FETCH_HEAD
Already up to date.
g
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (staging)
$ git merge develop
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (staging)
$ git push origin staging
Everything up-to-date
gi
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (staging)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git pull origin main
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          main          -> FETCH_HEAD
Already up to date.
s
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git merge staing
merge: staing - not something we can merge

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git merge staging
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ |

```

Q2_stage_verification

```
Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (collab)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git pull origin main
From github.com-sudo:23-22411-057-sudo/Lab2
 * branch          main          -> FETCH_HEAD
Already up to date.
c1

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git merge collab
Already up to date.

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git push origin main
Everything up-to-date

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (main)
$ git checkout -b feature-2
Switched to a new branch 'feature-2'

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ echo "Print('Feature 2')" > feature2.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ git add feature2.py
warning: in the working copy of 'feature2.py', LF will be replaced by CRLF the n
ext time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ git commit -m "Add feature2.py"
[feature-2 78df11b] Add feature2.py
1 file changed, 1 insertion(+)
create mode 100644 feature2.py

Syed@DESKTOP-S50GK51 MINGW64 ~/Documents/Lab2 (feature-2)
$ git push origin feature-2
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), 299 bytes | 74.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-2' on GitHub by visiting:
remote:   https://github.com/23-22411-057-sudo/Lab2/pull/new/feature-2
remote:
To github.com-sudo:23-22411-057-sudo/Lab2.git
 * [new branch]      feature-2 -> feature-2
```

Q3_branches_modified

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (staging)
$ git checkout -b collab-branch-A
Switched to a new branch 'collab-branch-A'

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ echo "Line from User A" >> team.txt

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ echo "Line from User A" >> team.txt

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git add team.txt
warning: in the working copy of 'team.txt', LF will be replaced by CRLF the next
time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git commit -m "User A: Added line"
[collab-branch-A f247d9d] User A: Added line
1 file changed, 2 insertions(+)
create mode 100644 team.txt

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git checkout -b collab-branch-B main
fatal: 'main' is not a commit and a branch 'collab-branch-B' cannot be created f
rom it

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ echo "Line from User B" >> team.txt

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git add team.txt
warning: in the working copy of 'team.txt', LF will be replaced by CRLF the next
time Git touches it

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git commit -m "User B: Added line"
[collab-branch-A 989c8f6] User B: Added line
1 file changed, 1 insertion(+)

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ |

```

Q3_merge_conflict

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git checkout collab-branch-A
Already on 'collab-branch-A'

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git merge collab-branch-B
merge: collab-branch-B - not something we can merge

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ |

```

Q3_conflict_resolved

```

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git add team.txt

Syed@DESKTOP-S50GK51 MINGW64 ~ (collab-branch-A)
$ git commit -m "Resolved conflict: kept both lines"
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 collab-branch-A
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .Iccream Video Editor/
        .android/
        .bash_history
        .config/
        .dotnet/
        .gitconfig
        .lessht
        .nuget/
        .packettracer
        .ssh/
        .viminfo
        .vscode/
        3D Objects/
        AppData/
        Contacts/
        Desktop/
        Documents/
        Downloads/
        Favorites/
        IntelGraphicsProfiles/
        Lab2/
        Links/
        Music/
        NTUSER.DAT

```

Q3_final_file

