Name: Reena Qureshi

Sem : V-B

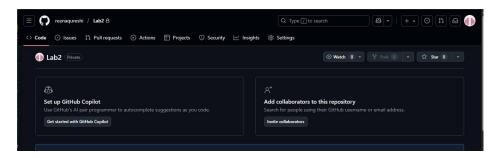
Reg No: 2033-BSE-052

Lab 2

Task 1: Create Private GitHub Repository

Create a new private repository named Lab2 on GitHub.

Take a screenshot of your repo settings showing it's private.

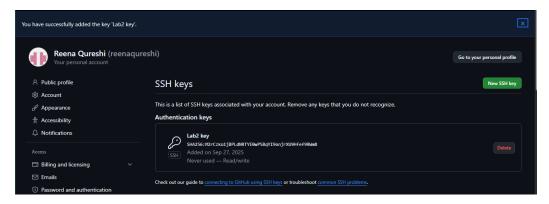


Task 2: Connect Repository via SSH

Generate a new SSH key using PowerShell:

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

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



CLONE YOUR LAB2 REPO USING SSH.

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

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ git clone git@github.com:reenaqureshi/Lab2.git
Cloning into 'Lab2'...
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/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.

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ |
```

Task 3: Configure Git Username and Email

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 <u>your_email@example.com</u>
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ git config --global user.name "Reena Qureshi"
git config --global user.email "23-22411-052@se.fjwu.edu.pk"

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ |
```

Verify your configuration:

git config --list

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
ilter.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
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
user.name=Reena Qureshi
user.email=23-22411-052@se.fjwu.edu.pk
gui.recentrepo=C:/Users/Reena Qureshi/Lab2
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~
$
```

Task 4: Explore the .git Folder

Navigate into your cloned repository folder.

Show hidden files and locate the .git directory.

Explore what's inside using:

ls -a .git

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ ls -a .git
./ ../ COMMIT_EDITMSG FETCH_HEAD HEAD ORIG_HEAD config description hooks/ index info/ logs/ objects/ refs/

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ |
```

Task 5: Local Repository Management

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

rm -rf .git

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ rm -rf .git

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ |
```

Re-initialize the local git repository

git init

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~

$ git init
Initialized empty Git repository in C:/Users/Reena Qureshi/.git/

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)

$ |
```

Add a file named README.md and commit it:

```
echo "# Lab2 Git Practice" > README.md
git add README.md
git commit -m "Initial commit"
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)
$ ^[[200~echo "# Lab2 Git Practice" > README.md
bash: $'\E[200~echo': command not found

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)
$ git add README.md

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)
$ git commit -m "Initial commit"
[master (root-commit) b431fe2] Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)
$ |
```

Connect your local repo to GitHub and push:

git remote add origin git@github.com:<yourusername>/Lab2.git git push -u origin main

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)

$ git remote add origin git@github.com:reenaqureshi/Lab2.git
git push -u origin master

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 232 bytes | 77.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To github.com:reenaqureshi/Lab2.git
 * [new branch] master -> master

branch 'master' set up to track 'origin/master'.

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)

$
```

Task 6: File Status & Staging

Create a new file notes.txt and write a note.

Check status

```
Reena Qureshi@DESKTOP-TCSMOFP MINGW64 ~ (master)
$ echo "This is my first note." > notes.txt

Reena Qureshi@DESKTOP-TCSMOFP MINGW64 ~ (master)
$ git status
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Nebtook/': Permission denied
warning: could not open directory 'Nebtook/': Permission denied
warning: could not open directory 'Nebtook/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
on branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add cfile..." to include in what will be committed)
android/
abus-keyrings/
...indroid/
...openshot_qt/
...packettracer
...ssh/
..templateengine/
3D Objects/
AppData/
Contacts/
Downloads/
Favorites/
IntelGraphicsProfiles/
Lab2/
Mustc/
NTUSER.DAT(091595993-738b-11ee-b4dd-7c5cf82c0aa6).TM.blf
NTUSER.DAT(091595993-738b-11ee-b4dd-7c5cf82c0aa6).TM.container000000000000000000.regtrans-ms.
NTUSER.DAT(091595993-738b-11ee-b4dd-7c5cf82c0aa6).TM.Container00000000000000000.regtrans-ms.
```

Stage and commit:

git add notes.txt

git commit -m "Add notes.txt"

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~ (master)

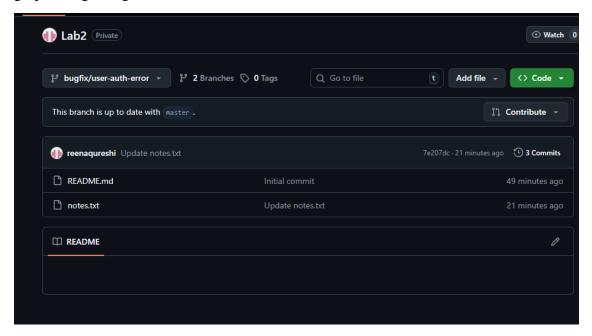
$ git add notes.txt
git commit -m "Add notes.txt"
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the next time Git touches it
[master 8621ce5] Add notes.txt
1 file changed, 1 insertion(+)
create mode 100644 notes.txt
```

Task 7: Branch Creation Using GitHub GUI

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

Pull the branch to your local repository to sync.

git pull origin bugfix/user-auth-error



```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)
$ git fetch origin
git checkout bugfix/user-auth-error
emote: Enumerating objects: 9, done.
emote: Counting objects: 100% (9/9), done.
emote: Compressing objects: 100% (6/6), done.
 emote: Total 9 (delta 1), reused 8 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (9/9), 762 bytes | 8.00 KiB/s, done.
From github.com:reenaqureshi/Lab2
  [new branch]
                     bugfix/user-auth-error -> origin/bugfix/user-auth-error
  [new branch]
                     master
                                            -> origin/master
branch 'bugfix/user-auth-error' set up to track 'origin/bugfix/user-auth-error'.
Switched to a new branch 'bugfix/user-auth-error'
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (bugfix/user-auth-error)
```

Task 8: Branch Creation and Push Using Git Bash

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

git checkout -b feature/db-connection

Push the branch to the remote repository:

git push origin feature/db-connection

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (bugfix/user-auth-error)

$ git checkout -b feature/db-connection'

Switched to a new branch 'feature/db-connection'

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (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/reenaqureshi/Lab2/pull/new/feature/db-connection

remote:

To github.com:reenaqureshi/Lab2.git

* [new branch] feature/db-connection -> feature/db-connection

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature/db-connection)

$
```

Task 9: Branching & Merging

Create and switch to a branch feature-1:

git checkout -b feature-1

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature/db-connection)
$ git checkout -b feature-1
Switched to a new branch 'feature-1'
```

Modify main.py (add a function) and commit

git add main.py

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

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature-1)
$ echo "def hello():" > main.py
echo " print('Hello from feature-1 branch')" >> main.py

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature-1)
$
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature-1)
$ git add main.py
git commit -m "Add new function to main.py"
warning: in the working copy of 'main.py', LF will be replaced by CRLF the next time Git touches it
[feature-1 2088b9c] Add new function to main.py
1 file changed, 2 insertions(+)
create mode 100644 main.py

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature-1)
$ |
```

Switch back to main and merge:

git checkout main

git merge feature-1

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature-1)
$ git checkout master
git merge feature-1
branch 'master' set up to track 'origin/master'.
Switched to a new branch 'master'
Updating 7e207dc..2088b9c
Fast-forward
main.py | 2 ++
1 file changed, 2 insertions(+)
create mode 100644 main.py
```

Push all branches:

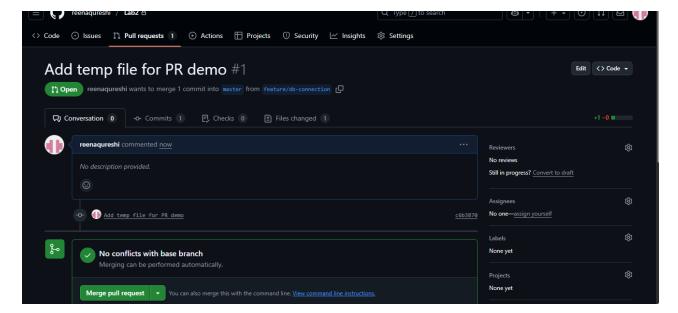
git push origin main

git push origin feature-1

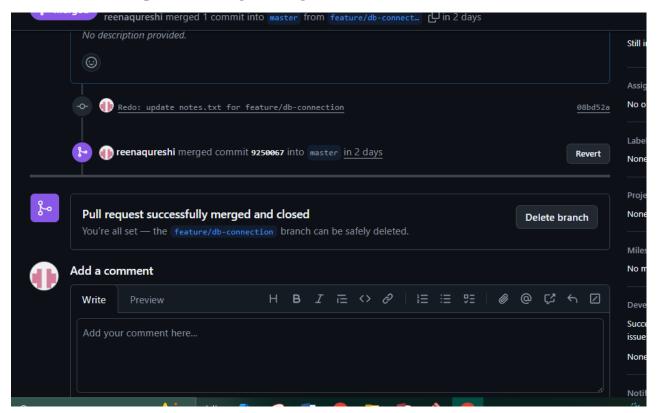
```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ git push origin master
git push origin feature-1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 376 bytes | 376.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:reenaqureshi/Lab2.git
   7e207dc..2088b9c master -> master
Total O (delta O), reused O (delta O), pack-reused O (from O)
remote: Create a pull request for 'feature-1' on GitHub by visiting:
             https://github.com/reenaqureshi/Lab2/pull/new/feature-1
remote:
remote:
Γο github.com:reenaqureshi/Lab2.git
   [new branch]
                     feature-1 -> feature-1
```

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

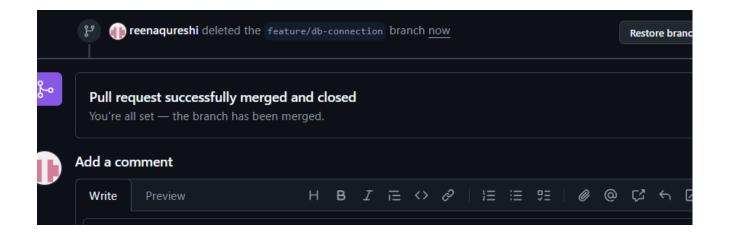
On GitHub, create a Pull Request from the branch feature/db-connection to main.



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



AFTER MERGING, DELETE THE FEATURE/DB-CONNECTION BRANCH USING THE GITHUB GUI.



Task 11: Detailed Branch Strategy (Develop/Staging)

Create the following branches to simulate a professional branching strategy:

```
develop
staging
feature/*
bugfix/*
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ git checkout -b develop
git push origin develop
Switched to a new branch 'develop'
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 355 bytes | 88.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
emote: Resolving deltas: 100% (1/1), completed with 1 local object.
emote:
remote: Create a pull request for 'develop' on GitHub by visiting:
emote:
            https://github.com/reenaqureshi/Lab2/pull/new/develop
emote:
To github.com:reenaqureshi/Lab2.git
                     develop -> develop
   [new branch]
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (develop)

$ git checkout -b staging
git push origin staging
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/reenaqureshi/Lab2/pull/new/staging
remote:
To github.com:reenaqureshi/Lab2.git
* [new branch] staging -> staging

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (staging)

$
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (staging)

$ git checkout -b feature/login
git push origin feature/login
Switched to a new branch 'feature/login'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/login' on GitHub by visiting:
remote: https://github.com/reenaqureshi/Lab2/pull/new/feature/login
remote:
To github.com:reenaqureshi/Lab2.git
* [new branch] feature/login -> feature/login
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature/login)

$ git checkout -b bugfix/typo
git push origin bugfix/typo
Switched to a new branch 'bugfix/typo'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'bugfix/typo' on GitHub by visiting:
remote: https://github.com/reenaqureshi/Lab2/pull/new/bugfix/typo
remote:
To github.com:reenaqureshi/Lab2.git
* [new branch] bugfix/typo -> bugfix/typo
```

Example Workflow:

Developers work on feature/* and bugfix/* branches.

Merge completed work into develop.

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (bugfix/typo)

$ git checkout develop
git merge feature/login
git push origin develop
A master
Switched to branch 'develop'
Already up to date.
Everything up-to-date
```

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (develop)

$ git merge bugfix/typo
git push origin develop
Already up to date.
Everything up-to-date

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (develop)
```

Merge develop into staging for testing.

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (develop)

$ git checkout staging
git merge develop
git push origin staging
A master
Switched to branch 'staging'
Already up to date.
```

Finally, merge staging into main (production).

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (staging)

$ git checkout master
git merge staging
git push origin master

A master

Switched to branch 'master'

Your branch is ahead of 'origin/master' by 1 commit.
 (use "git push" to publish your local commits)

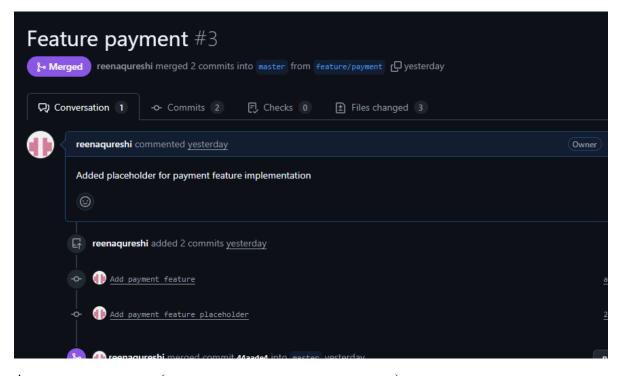
Already up to date.
```

Task 12: Code Review Workflow

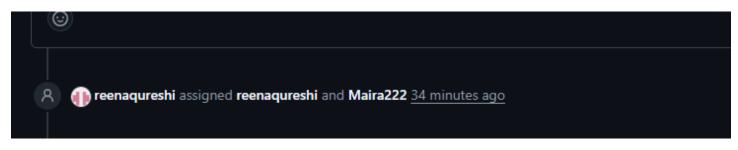
Create a Pull Request (PR) / Merge Request (MR):

From a feature branch into main.

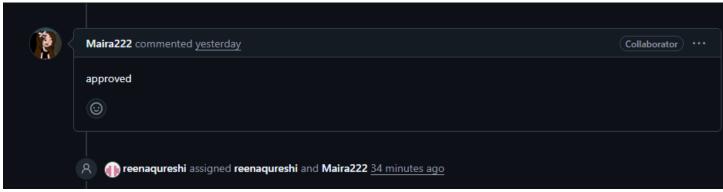
Add a clear title and description summarizing the changes.



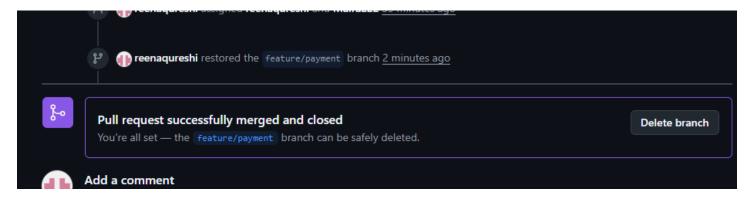
ASSIGN A REVIEWER (TEAMMATE OR SECOND ACCOUNT).



REVIEWER ACTIONS

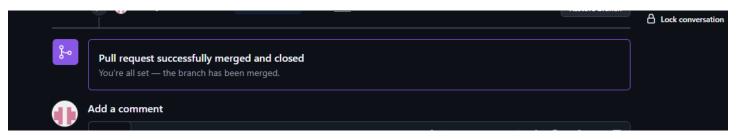


MERGE THE PR:



Task 13: Branch Cleanup Best Practices

Delete Remote Branch After Merge:



Update Local Repository:

git checkout main
git pull origin main
git branch -d
branch-name>

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)

$ git branch
bugfix/typo
bugfix/user-auth-error
develop
feature-1
feature/login

* master
staging
```

Branch "feature/payment deleted"

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ git checkout master
git pull origin master
git branch -d feature/payment # delete locally if merged
git branch -D feature/payment # force delete if not merge
                                  # force delete if not merged
Already on 'master'
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
 emote: Enumerating objects: 2, done.
 remote: Counting objects: 100% (2/2), done.
 remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (2/2), 1.76 KiB | 112.00 KiB/s, done.
From github.com:reenaqureshi/Lab2
                                  -> FETCH_HEAD
 * branch
                       master
   7836895..44aade4 master
                                    -> origin/master
Updating 08bd52a..44aade4
Fast-forward
               0
 master
 payment.py | 1 +
 payment.txt | 1 +
 3 files changed, 2 insertions(+)
 create mode 100644 master
 create mode 100644 payment.py
 create mode 100644 payment.txt
Deleted branch feature/payment (was 2e6b936).
error: branch 'feature/payment' not found
 Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
```

EXAM EVALUATION QUESTIONS

Advanced Branching & Merge Verification

Create a new branch in your repository

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (master)
$ git checkout -b exam-branch
Switched to a new branch 'exam-branch'
```

Make a small change in a file and commit it.

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (exam-branch)
$ echo "Exam branch testing" >> notes.txt

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (exam-branch)
$ git add notes.txt
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the
t time Git touches it

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (exam-branch)
$ git commit -m "Add exam branch test line"
[exam-branch f33f9a6] Add exam branch test line
1 file changed, 1 insertion(+)
```

Merge this branch back into the main branch

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (exam-branch)

$ git checkout master
git merge exam-branch
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
Updating 44aade4..f33f9a6
Fast-forward
notes.txt | 1 +
1 file changed, 1 insertion(+)
```

Show the history of commits in a way that verifies the merge

Multi-Stage Workflow Simulation

Set up a branching workflow with three branches: main, develop, and staging.

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)

$ git checkout -b develop
git checkout -b staging
git checkout main

Switched to a new branch 'develop'

Switched to a new branch 'staging'

Switched to branch 'main'

Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)

$ |
```

Create a feature branch from develop, make changes, and commit them

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature/test)

$ git add .

git commit -m "Added a new feature for testing"

[feature/test 6735980] Added a new feature for testing

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 feature-1
```

Merge the feature branch into develop

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (feature/test)

$ git checkout develop
git merge feature/test
Switched to branch 'develop'
Updating f33f9a6..6735980
Fast-forward
feature-1 | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 feature-1
```

Merge develop into staging

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (develop)

$ git checkout staging
git merge develop
Switched to branch 'staging'
Updating f33f9a6..6735980

Fast-forward
feature-1 | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 feature-1

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (staging)

$ |
```

Merge staging into main

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (staging)

$ git checkout main
git merge staging

Switched to branch 'main'

Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

Updating f33f9a6..6735980

Fast-forward
feature-1 | 0

1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 feature-1
```

Provide proof that each stage contains the updated changes before it reaches main

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)

$ git log --oneline --graph --all

* 6735980 (HEAD -> main, staging, feature/test, develop) Added a new feature for testing

* f33f9a6 Add exam branch test line

| * da08c93 (origin/feature/nem) add notes.txt

|/

* 44aade4 (origin/master, origin/HEAD) Merge pull request #3 from reenaqureshi/feature/payment
```

Collaboration & Conflict Resolution

Work with a collaborator: both contributors should modify the same file but in separate branches

```
INGW64 ~/Lab2 (collaborator2)
$ git checkout collaborator1
Switched to branch 'collaborator1'
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (collaborator1)
$ notepad notes.txt
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (collaborator1)
$ git checkout collaborator2
Switched to branch 'collaborator2'
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (collaborator2)
$ notepad notes.txt
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (collaborator2)
$ git add notes.txt
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (collaborator2)
$ git commit -m "Collaborator 2 made a change"
[collaborator2 5f92be7] Collaborator 2 made a change
1 file changed, 1 insertion(+)
```

Attempt to merge the branches and capture the conflict.

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)

$ git merge collaborator1
Updating 6735980..fda6d47
Fast-forward
notes.txt | 1 +
1 file changed, 1 insertion(+)

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)

$ git merge collaborator2
Auto-merging notes.txt
CONFLICT (content): Merge conflict in notes.txt
Automatic merge failed; fix conflicts and then commit the result.
```

Resolve the conflict so that both contributions are preserved

```
Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main|MERGING)
$ notepad notes.txt

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main|MERGING)
$ git add notes.txt
git commit -m "Resolved conflict and kept both contributions"
[main 7c4b610] Resolved conflict and kept both contributions

Reena Qureshi@DESKTOP-TC5MOFP MINGW64 ~/Lab2 (main)
$ |
```

Provide evidence that the final version of the file contains both collaborators' changes

```
File Edit Format View Help
This is my first note.
Adding a second line to notes.txt
# Redo Task 8
Exam branch testing
this was added by collaborator 1
this is added by collaborator 2 (and overwrites collaborator 1)
```