# Learn Git

## **Step-1:**

Create a Repository in Git Hub

Let’s Create a Repo named LearnGit

The remote url for the LearnGit is: https://github.com/NaveenSilvester/LearnGit.git

## **Step-2:**

Create a folder in your local computer and name it as LearnGit

## **Step-3:**

Open Command Prompt and navigate into the newly created folder named LearnGit on your local computer

## **Step-4:**

Initiate Git by typing the following command

git init

You will get a message stating

"Initialized empty Git repository in E:/NaveenLearnings2025/LearnGit/.git/"

## **Step-5:**

Adding remote repo to local directory by typing this command on your local computer's command prompt

Note: You need to provide the git URL tha you obtained from Step-1

git remote add origin https://github.com/NaveenSilvester/LearnGit.git

## **Step-6:**

Make a pull request from Remote directory so that local directory is in sync with the latest files in Remote dirctory

git pull origin main

Note: You will get some message like the below:

remote: Enumerating objects: 3, done.

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

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

Unpacking objects: 100% (3/3), 863 bytes | 3.00 KiB/s, done.

From https://github.com/NaveenSilvester/LearnGit

 \* branch            main       -> FETCH\_HEAD

 \* [new branch]      main       -> origin/main

## **Step-7:**

 View the Local Directory (LearnGit) and you will see the files from Remote directory copied into your local directory

## **Step-8:**

 Create a new file in your remote Directory and call the file as README.md

 Type some contents into this README.md file

## **Step-9:**

Check the Branch name of the Current Git folder

git branch

Note: You may see the branch as Master

\* master

## **Step-10:**

Rename the branch master to main (so that the names are consistent across Git and Github remote directory)

git branch -M master main

## **Step-11:**

Check the Branch name of the Current Git folder

git branch

Note: You will see the following message

\* main

## **Step-12:**

 Checking the Status of Git local directory

  git status

 You will see a new message:

 On branch master

Changes not staged for commit:

  (use "git add <file>..." to update what will be committed)

  (use "git restore <file>..." to discard changes in working directory)

        modified:   README.md

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

## **Step-13:**

Staging the files

git add \*

## **Step-14:**

 Checking the Status of Git local directory

 git status

 You will see a new message:

 On branch main

Changes to be committed:

  (use "git restore --staged <file>..." to unstage)

        modified:   README.md

## **Step-15:**

Committing the staged files

git commit -m "My First Commit"

Note: You will see a message something like the one below:

[main 3dd7301] My First Commit

 1 file changed, 48 insertions(+), 2 deletions(-)

## **Step-16:**

Pushing the Change to remote directory

git push origin main

Note: You will see some message similar to the below one:

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 994 bytes | 994.00 KiB/s, done.

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

To https://github.com/NaveenSilvester/LearnGit.git

   17a9586..3dd7301  main -> main

## **Step-17:**

Login to Git but and get to the repository LearnGit

You will see the README.md file updated into remote directory

## **Step-18: (Git Branching by creating a new branch named feature-login)**

git branch feature-login

## **Step-19:**

Check the branches

git branch

Note: You will see this message on the screen

feature-login

\* main

## **Step-20: Change Branch from main to feature-login**

git switch main

git branch

Note: You will see this message on the screen

\* feature-login

Main

## **Step-21: Create a new file named “GitCommands.docx”**

Add some contents to the file

git add \*

git commit -m “Added to feature-login”

git push origin feature-login

## **Step-22: The file GitCommads.docx gets added to the remote directory under the newly created branch “feature-login”**

You will see on the GitHub that the file GitCommands.docx available under the branch feature-login and not under main

## **Step-23: Merging feature-login branch with main**

First switch the branch from feature-login to main

git switch main

## **Step-24: Add the new file to the staging environment and then commit followed by push to main**

git add \*

git commit -m “Merging with main branch”

git push origin main

## **Step-25: Merged the files from feature-login branch to main**

You will now see GitCommands.docx under main branch.