Git installation:
sudo apt update
sudo apt install git
git --version

 # Create a new remote repo in git hub.

 # git clone <git repo url>

Setup git:
git config --global user.name "Your Name"
git config --global user.email "youremail@domain.com"

1. Check the branch first:
git branch

2. Create New branch
git branch <branchname>

3. Switch to new branch
git checkout <branchname>

4. Check status
git status

5. To add file:
git add filename

6.To check working tree status:
git status

7. to stage file/folder(adding)
git add <file/foldername>   or git add .

8.To commit staged files to local repository:
git commit -m "commit message"

9. Staging and committing multiple files:
git commit -a -m "commit message"

10.Push changes to remote repo
git push origin <branchname>
username: ---> give your git hub username
password: given the token generated

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GitHub Desktop UI tool: Everything with UI actions. It works only on MAC and Windows
Download Source: https://desktop.github.com/

VS Code Editor will automatically adapt with GitHub Desktop
Please install GitHub Desktop and immediately install VSCode
VsCode Download URL: https://code.visualstudio.com/download

Documentation: https://docs.github.com/en/desktop

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10. Git rm command deletes file from git repository as well as users system.
git rm <filename>

11.Git remove file from git repository but not from system
git rm --cached <filename>

12.To force remove a stage files
git rm -f <filename>

13.Git commit log:
git log
14.Working with remote repository:
Create new GIT HUB account.
Create new remote repository.

15.Adding remote repository to local:
git clone <remote repo url>

17. Remote repo list:
git remote -v

18. Git fetch:
git fetch origin

19. Git pull
git pull origin

17.Git Pull request
Create PR remotely

2. # first switch to branch main
then
git branch c1
madan@madan-virtual-machine:~/git/myfirstrepo$ Switched to branch 'c1'

madan@madan-virtual-machine:~/git/myfirstrepo$ git commit -m "modified s1.txt"
[c1 76a2670] modified s1.txt
 1 file changed, 1 insertion(+), 1 deletion(-)
madan@madan-virtual-machine:~/git/myfirstrepo$ git push origin c1
Username for 'https://github.com': madandevops11

Password for 'https://madandevops11@github.com':
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), 263 bytes | 263.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'c1' on GitHub by visiting:
remote: https://github.com/madandevops11/myfirstrepo/pull/new/c1
remote:
To https://github.com/madandevops11/myfirstrepo.git
 * [new branch]   c1 -> c1
madan@madan-virtual-machine:~/git/myfirstrepo$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
madan@madan-virtual-machine:~/git/myfirstrepo$ ls
file1.txt file2.txt readme.txt s1.txt
madan@madan-virtual-machine:~/git/myfirstrepo$ vi s1.txt
madan@madan-virtual-machine:~/git/myfirstrepo$ git add .
madan@madan-virtual-machine:~/git/myfirstrepo$ git commit -m "modified s1.txt in main"
[main 2fb7dd8] modified s1.txt in main
 1 file changed, 1 insertion(+), 1 deletion(-)
madan@madan-virtual-machine:~/git/myfirstrepo$ git push origin main
Username for 'https://github.com': madandevops11
Password for 'https://madandevops11@github.com':
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), 270 bytes | 270.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/madandevops11/myfirstrepo.git
   8ee3cad..2fb7dd8 main -> main
madan@madan-virtual-machine:~/git/myfirstrepo$

Now raise PR in git hub from c1 to main branch which will show conflicts.