[suryansh@archlinux ~]$ git clone https://github.com/gupta-suryansh/practical.git

Cloning into 'practical'...

remote: Enumerating objects: 6, done.

remote: Counting objects: 100% (6/6), done.

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

remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Receiving objects: 100% (6/6), done.

[suryansh@archlinux ~]$ cd practical/

[suryansh@archlinux practical]$ git branch

error: cannot run less: No such file or directory

fatal: unable to execute pager 'less'

[suryansh@archlinux practical]$ git status

On branch main

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

nothing to commit, working tree clean

[suryansh@archlinux practical]$ git checkout -b "user-authentication"

Switched to a new branch 'user-authentication'

[suryansh@archlinux practical]$ git branch

error: cannot run less: No such file or directory

fatal: unable to execute pager 'less'

[suryansh@archlinux practical]$ git branch

main

\* user-authentication

[suryansh@archlinux practical]$ touch auth.py

[suryansh@archlinux practical]$ ls

auth.py README.md

[suryansh@archlinux practical]$ nano auth.py

[suryansh@archlinux practical]$ cat auth.py

print("Hello world!!")

[suryansh@archlinux practical]$ git add auth.py

[suryansh@archlinux practical]$ git commit -m "auth file"

[user-authentication b3c0095] auth file

1 file changed, 1 insertion(+)

create mode 100644 auth.py

[suryansh@archlinux practical]$ git push origin user-authentication

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 16 threads

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

Writing objects: 100% (3/3), 301 bytes | 301.00 KiB/s, done.

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

remote:

remote: Create a pull request for 'user-authentication' on GitHub by visiting:

remote: https://github.com/gupta-suryansh/practical/pull/new/user-authentication

remote:

To https://github.com/gupta-suryansh/practical.git

\* [new branch] user-authentication -> user-authentication

[suryansh@archlinux practical]$ git branch

main

\* user-authentication

[suryansh@archlinux practical]$ git checkout main

Switched to branch 'main'

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

[suryansh@archlinux practical]$ nano auth.py

[suryansh@archlinux practical]$ ls

README.md

[suryansh@archlinux practical]$ git status

On branch main

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

nothing to commit, working tree clean

[suryansh@archlinux practical]$ git status

On branch main

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

nothing to commit, working tree clean

[suryansh@archlinux practical]$ git merge user-authentication

Updating bb57a55..b3c0095

Fast-forward

auth.py | 1 +

1 file changed, 1 insertion(+)

create mode 100644 auth.py

[suryansh@archlinux practical]$ git branch

\* main

user-authentication

[suryansh@archlinux practical]$ ls

auth.py README.md

[suryansh@archlinux practical]$ git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

[suryansh@archlinux practical]$ nano auth.py

[suryansh@archlinux practical]$ git add .

[suryansh@archlinux practical]$ git commit -m "merged"

[main fa18286] merged

1 file changed, 1 insertion(+)

[suryansh@archlinux practical]$ git push origin main

To https://github.com/gupta-suryansh/practical.git

! [rejected] main -> main (fetch first)

error: failed to push some refs to 'https://github.com/gupta-suryansh/practical.git'

hint: Updates were rejected because the remote contains work that you do not

hint: have locally. This is usually caused by another repository pushing to

hint: the same ref. If you want to integrate the remote changes, use

hint: 'git pull' before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

[suryansh@archlinux practical]$ ^C

[suryansh@archlinux practical]$ git fetch origin

remote: 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), 1.68 KiB | 1.68 MiB/s, done.

From https://github.com/gupta-suryansh/practical

bb57a55..86e3a95 main -> origin/main

[suryansh@archlinux practical]$ git pull origin main

From https://github.com/gupta-suryansh/practical

\* branch main -> FETCH\_HEAD

hint: You have divergent branches and need to specify how to reconcile them.

hint: You can do so by running one of the following commands sometime before

hint: your next pull:

hint:

hint: git config pull.rebase false # merge

hint: git config pull.rebase true # rebase

hint: git config pull.ff only # fast-forward only

hint:

hint: You can replace "git config" with "git config --global" to set a default

hint: preference for all repositories. You can also pass --rebase, --no-rebase,

hint: or --ff-only on the command line to override the configured default per

hint: invocation.

fatal: Need to specify how to reconcile divergent branches.

[suryansh@archlinux practical]$ git pull origin main --no-rebase

From https://github.com/gupta-suryansh/practical

\* branch main -> FETCH\_HEAD

CONFLICT (modify/delete): auth.py deleted in 86e3a9560c6d5ba01bb60c2c20520a7dd44c2282 and modified in HEAD. Version HEAD of auth.py left in tree.

Automatic merge failed; fix conflicts and then commit the result.

[suryansh@archlinux practical]$ ls

auth.py README.md

[suryansh@archlinux practical]$ git push origin main

To https://github.com/gupta-suryansh/practical.git

! [rejected] main -> main (non-fast-forward)

error: failed to push some refs to 'https://github.com/gupta-suryansh/practical.git'

hint: Updates were rejected because the tip of your current branch is behind

hint: its remote counterpart. If you want to integrate the remote changes,

hint: use 'git pull' before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

[suryansh@archlinux practical]$ git pull origin main --rebase

error: Pulling is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

[suryansh@archlinux practical]$ nano touch

[suryansh@archlinux practical]$ ls

auth.py README.md

[suryansh@archlinux practical]$ nano auth.py

[suryansh@archlinux practical]$ git merge main

error: Merging is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

[suryansh@archlinux practical]$ git merge user-authentication

error: Merging is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

[suryansh@archlinux practical]$ git pull origin main --rebase

error: Pulling is not possible because you have unmerged files.

hint: Fix them up in the work tree, and then use 'git add/rm <file>'

hint: as appropriate to mark resolution and make a commit.

fatal: Exiting because of an unresolved conflict.

[suryansh@archlinux practical]$ git status

On branch main

Your branch and 'origin/main' have diverged,

and have 1 and 2 different commits each, respectively.

(use "git pull" if you want to integrate the remote branch with yours)

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Unmerged paths:

(use "git add/rm <file>..." as appropriate to mark resolution)

deleted by them: auth.py

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

[suryansh@archlinux practical]$ git add .

[suryansh@archlinux practical]$ git commit -m "issue"

[main 2bf2bb2] issue

[suryansh@archlinux practical]$ git push origin main

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 16 threads

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

Writing objects: 100% (4/4), 428 bytes | 428.00 KiB/s, done.

Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (1/1), done.

To https://github.com/gupta-suryansh/practical.git

86e3a95..2bf2bb2 main -> main

[suryansh@archlinux practical]$ git merge user-authentication

Already up to date.

[suryansh@archlinux practical]$ git status

On branch main

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

nothing to commit, working tree clean

[suryansh@archlinux practical]$