1.Git-HOL

Terminal commands -

shivambora@shivams-MacBook-Pro ~ % git --version

git version 2.39.5 (Apple Git-154)

shivambora@shivams-MacBook-Pro ~ % git config --global user.name "Shivam Bora"

shivambora@shivams-MacBook-Pro ~ % git config --global user.email "borashivam135790@gmail.com"

shivambora@shivams-MacBook-Pro ~ % git config --global --list

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=Shivam Bora

user.email=borashivam135790@gmail.com

shivambora@shivams-MacBook-Pro ~ % git config --global core.editor "nano"

shivambora@shivams-MacBook-Pro ~ % git config --global --list

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=Shivam Bora

user.email=borashivam135790@gmail.com

core.editor=nano

shivambora@shivams-MacBook-Pro ~ % mkdir GitDemo

shivambora@shivams-MacBook-Pro ~ % cd GitDemo

shivambora@shivams-MacBook-Pro GitDemo % git init

Initialized empty Git repository in /Users/shivambora/GitDemo/.git/

shivambora@shivams-MacBook-Pro GitDemo % ls -a

. .. .git

shivambora@shivams-MacBook-Pro GitDemo %

shivambora@shivams-MacBook-Pro GitDemo % git pull origin main --allow-unrelated-histories

From https://gitlab.com/borashivam135790-group/GitDemo

\* branch main -> FETCH\_HEAD

Merge made by the 'ort' strategy.

README.md | 93 ++++++++++++++++++++++++++++++++++++++

1 file changed, 93 insertions(+)

create mode 100644 README.md

shivambora@shivams-MacBook-Pro GitDemo % git push -u origin main

Enumerating objects: 6, done.

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

Delta compression using up to 8 threads

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

Writing objects: 100% (5/5), 532 bytes | 532.00 KiB/s, done.

Total 5 (delta 0), reused 0 (delta 0), pack-reused 0

To https://gitlab.com/borashivam135790-group/GitDemo.git

f5481ea..198aabc main -> main

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

shivambora@shivams-MacBook-Pro GitDemo %

OUTPUT

fvv

A screenshot of a computer

AI-generated content may be incorrect.fsfsfsf

2. Git-HOL

Teminal Code –

shivambora@shivams-MacBook-Pro ~ % cd GitDemo

shivambora@shivams-MacBook-Pro GitDemo % touch test.log

mkdir log

shivambora@shivams-MacBook-Pro GitDemo % 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)

test.log

nothing added to commit but untracked files present (use "git add" to track)

shivambora@shivams-MacBook-Pro GitDemo % nano .gitignore

shivambora@shivams-MacBook-Pro GitDemo % git add .gitignore

git commit -m "Add .gitignore file"

[main 14ac385] Add .gitignore file

1 file changed, 3 insertions(+)

create mode 100644 .gitignore

shivambora@shivams-MacBook-Pro GitDemo % 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

shivambora@shivams-MacBook-Pro GitDemo % git push origin main

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), 333 bytes | 333.00 KiB/s, done.

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

To https://gitlab.com/borashivam135790-group/GitDemo.git

198aabc..14ac385 main -> main

shivambora@shivams-MacBook-Pro GitDemo %

A screenshot of a computer

AI-generated content may be incorrect.Output

A screenshot of a computer program

AI-generated content may be incorrect.

3.Git-HOL

Terminal code –

shivambora@shivams-MacBook-Pro GitDemo % git checkout -b GitNewBranch

Switched to a new branch 'GitNewBranch'

shivambora@shivams-MacBook-Pro GitDemo % echo "This is a new feature." > new-feature.txt

shivambora@shivams-MacBook-Pro GitDemo % git status

git add new-feature.txt

git commit -m "Added a new feature"

On branch GitNewBranch

Untracked files:

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

new-feature.txt

nothing added to commit but untracked files present (use "git add" to track)

[GitNewBranch 6bef051] Added a new feature

1 file changed, 1 insertion(+)

create mode 100644 new-feature.txt

shivambora@shivams-MacBook-Pro GitDemo % git checkout main

Switched to branch 'main'

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

shivambora@shivams-MacBook-Pro GitDemo % git merge GitNewBranch

Updating 14ac385..6bef051

Fast-forward

new-feature.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 new-feature.txt

shivambora@shivams-MacBook-Pro GitDemo % git push origin main

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), 383 bytes | 383.00 KiB/s, done.

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

To https://gitlab.com/borashivam135790-group/GitDemo.git

14ac385..6bef051 main -> main

shivambora@shivams-MacBook-Pro GitDemo % git branch -d GitNewBranch

Deleted branch GitNewBranch (was 6bef051).

shivambora@shivams-MacBook-Pro GitDemo % git status

On branch main

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

nothing to commit, working tree clean

shivambora@shivams-MacBook-Pro GitDemo %

OUTPUT

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.ff

1. 4.. Git-HOL

Terminal code –

shivambora@shivams-MacBook-Pro GitDemo % git status

On branch main

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

nothing to commit, working tree clean

shivambora@shivams-MacBook-Pro GitDemo % git checkout -b GitWork

Switched to a new branch 'GitWork'

shivambora@shivams-MacBook-Pro GitDemo % echo "This is the original content." > hello.xml

git add hello.xml

git commit -m "Add hello.xml to GitWork branch"

[GitWork 5434dfa] Add hello.xml to GitWork branch

1 file changed, 1 insertion(+)

create mode 100644 hello.xml

shivambora@shivams-MacBook-Pro GitDemo % git checkout main

Switched to branch 'main'

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

shivambora@shivams-MacBook-Pro GitDemo % echo "This is different content." > hello.xml

git add hello.xml

git commit -m "Add hello.xml to main branch"

[main 7a0edcf] Add hello.xml to main branch

1 file changed, 1 insertion(+)

create mode 100644 hello.xml

shivambora@shivams-MacBook-Pro GitDemo % git merge GitWork

Auto-merging hello.xml

CONFLICT (add/add): Merge conflict in hello.xml

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

shivambora@shivams-MacBook-Pro GitDemo % nano hello.xml

shivambora@shivams-MacBook-Pro GitDemo % git add hello.xml

git commit -m "Resolve merge conflict and finalize content"

[main 001a549] Resolve merge conflict and finalize content

shivambora@shivams-MacBook-Pro GitDemo % git branch -d GitWork

Deleted branch GitWork (was 5434dfa).

shivambora@shivams-MacBook-Pro GitDemo % git push origin main

Enumerating objects: 10, done.

Counting objects: 100% (10/10), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (9/9), 846 bytes | 846.00 KiB/s, done.

Total 9 (delta 4), reused 0 (delta 0), pack-reused 0

To https://gitlab.com/borashivam135790-group/GitDemo.git

6bef051..001a549 main -> main

shivambora@shivams-MacBook-Pro GitDemo %

OUTPUT

A screenshot of a computer

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.

5.Git-HOL

Terminal Code –

shivambora@shivams-MacBook-Pro GitDemo % git status

On branch main

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

nothing to commit, working tree clean

shivambora@shivams-MacBook-Pro GitDemo % git branch -a

\* main

remotes/origin/main

shivambora@shivams-MacBook-Pro GitDemo % git pull origin main

From https://gitlab.com/borashivam135790-group/GitDemo

\* branch main -> FETCH\_HEAD

Already up to date.

shivambora@shivams-MacBook-Pro GitDemo % git push origin main

Everything up-to-date

shivambora@shivams-MacBook-Pro GitDemo %

OUTPUT

A screenshot of a computer

AI-generated content may be incorrect.