**Git commands**

**# Initialize a Git Repository**

git init

**# Clone a Repository**

git clone <repository-url>

**# Check Status**

git status

**# Add Changes to the Staging Area**

git add <file(s)>

**# Commit Changes**

git commit -m "Commit message"

**# View Commit History**

git log

**# Create a New Branch**

git branch <branch-name>

**# Switch to a local/remote Branch**

git checkout <branch-name>

**# Create and Switch to a New Branch**

git checkout -b <new-branch-name>

**# Merge a Branch into the Current Branch**

git merge <branch-name>

**# Pull Changes from a Remote Repository**

git pull <remote> <branch>

e.g: git pull origin main

e.g: **git pull [options] [remote] [branch]**

**# Push Changes to a Remote Repository**

git push <remote-name> <branch-name>

**# View Remote Repositories**

git remote -v

**# Fetch Changes from a Remote Repository**

git fetch <remote-name>

**# Create a Tag for a Specific Commit**

git tag <tag-name> <commit-hash>

**# Undo Changes in Working Directory (Unstage)**

git reset <file>

**# Discard Changes in Working Directory (Uncommitted)**

git checkout -- <file>

**# Discard Local Changes and Fetch Latest from Remote**

git reset --hard HEAD

git clean -f -d

git pull

**# Configure Git User and Email**

git config --global user.name "Your Name"

git config --global user.email "your@email.com"

**# See Git Configuration**

git config --list

**# Delete the most recent commit while keeping changes in the working directory**

git reset HEAD^

**# Delete the most recent commit and discard changes from the working directory**

git reset --hard HEAD^

**# when one file is already pushed once and then git will always track that file or folder, if we decide not to involve it in future pushes and git repo should not track it these are the commands we should follow**

1. Add that file/folder in gitignore.
2. It is necessary to manually untrack that file/folder which was once pushed and tracked by git at one point by following command.
3. git rm -r --cached another\_ignore