

1] Start with below command: -

- a] git config -- global user.name "AniketGadge10"
- b] git config -- global user.email "xyz@gmail.com"

2] To Display user details :-

- a] git config --global user.name
- b] git config – global user.email

3] Create a repository on git without name: -

- a] git init .

4] add & remove file into staging area: -

The staging area is a “selection area” where you organize your code changes before making a commit.

- a] git add ./GitCommand.docx //add single file from repo
- b] git add . //add all file from repo
- c] git reset ./GitCommand.docx //Remove from staging

5] add changes to local VCS: -

- a] git commit -m "comment massage"
- b] git reset ./GitCommand.docx //Remove from local VCS

6] show current status of repository: -

- a] git status

7] show commit history: -

- a] git log

8] Compare the changes in working directory (file) with staging area

- a] git diff

9] Compare the change in staging area with local repository/local VCS

- a] git diff –staged

10] Compare the changes in working directory (file) with local repository

- a] git diff head

11] To push the code to remote repo from local VCS.

- a] git push
- b] git push origin master - Push changes to remote Github repo

12] To clone repo from remote repo to working directory.

A] git clone https://github.com/AniketGadage10/GitHub_CommandLine

13]

Command Purpose	When to Use
git clone Download entire repo for first time	When starting with a new repo
git pull Update existing repo with new changes	Every time you want the latest updates

git pull = git fetch + git merge

14] Download updates from the remote repository *without* merging them.

- a] git fetch // remote repository to local repository VCS
- b] git fetch origin //Fetch updates only from the selected remote.
- c] git fetch origin main //Fetch updates for a single branch only.

What it does:

- Gets the latest commits from remote
- Updates your remote-tracking branches (like origin/main)
- **Does NOT change your working files**
- You must merge manually if you want those updates

Useful when:

- You want to **review changes before merging**

15] **Origin:** -

- **nickname/shortcut** for your remote GitHub repository URL.
- It helps Git know **where to push** and **where to pull** changes.
 - **git clone https://github.com/user/project.git**
- Git automatically sets:

origin = https://github.com/user/project.git