GIT DOCS

Different approaches to operate git account:
1. Console
2 command prompt

1 Introduction to git:

Git is a distributed version control system used to track changes in soure code during software development
It helps developers:
> track files
> collaborate with teams
>maintain version history
>manage branches

2 Installation and getting started:

Install in windows–
Verify version- git–version
Configure git (first time setup)
git config --global user.name "Manikantabandari"

git config --global user.email "ayappabandari.2003@gmail.com"

3 Create a Local Repository:
 i create a project folder
        Mkdir myproject
        Cd myproject
ii intilaize git repository
        Git init (this creates a hidden .git folder to track changes.)
        Git status(to check status)

4 commit to a local repository
 Step 1 : create a file
        Touch app.py
 Step 2: add file to staging area
        Git add app.py
        Git add .
Step 3: commit changes
        Git commit -m "initial change"
Git log(to check history commit)

5 create a local repository

Remote repository are typically created on platform like:
>github
>gitlab
>bitbucket
Steps:
1.login to git
2 click new repo
3 enter repo
4 click create
Copy url : next

6 push to a remote rep
Step 1: connect local repo to remote
Git remote add origin https://github.com/anvesh1723/Git_practice.git
Check remote:
Git remote -v
Step 2:push code:
Git push -u origin main/master
After first push, next time simply(git push)

7 git references(imp):

Command	desc
Git status	check current status
Git add	add a file to staging
Git commit	save changes
Git log	view commit history
Git diff	view file changes
Git branch	list branch
Git checkout	switch branch
Git merge	merge branches
Git pull	fetch+merge remote changes
Git clone	copy remote repo

8 branch and merging:
Branching allows parallel development without affecting main code.

Create new branch:
Git checkout feature1
or(shortcut):
Git checkout -b feature1

Make changes and commit:
Git add.

Git commit -m "Added new feature"

Merge Branch into Main
    Switch to main branch:
        Git checkout main
    Merge:
        Git merge feature 1

Delete Branch(Optional)

Git branch -d feature1

9 Basic Git Workflow
    Working directory
        !
    Staging area(git add)
        !
    Local repository
        !
Remote Repository