Demonstrate working with Gitshell commands

Procedure:

1.Git init:

To start using git,navigate to the directory where your project is located and run

```
D:\Devops>git init
Initialized empty Git repository in D:/Devops/.git/
```

2.Adding files to staging area:

You can add your files to the staging area to prepare them for a commit using the 'git add' command for example to add a file called 'myfile.txt'

```
D:\Devops>git init
Initialized empty Git repository in D:/Devops/.git/

D:\Devops>git add myfile.txt
```

3.Commiting changes:

Once you have added files to the staging area you can commit them to repository with a commit message.using 'git commit' command

```
D:\Devops>git commit -m "your commit changes"
[master (root-commit) e747d12] your commit changes
 1 file changed, 1 insertion(+)
 create mode 100644 myfile.txt
```

4.Checking Status:

To see the status of your repository and which files have been modified, added or deleted use 'git status'

```
D:\Devops>git status
On branch master
nothing to commit, working tree clean
```

5.Viewing commit history:

You can view the commit history of your repository using 'git log'

```
e747d1241f9e33ae983822c7c589ab84faef061c (HEAD -> master)
Author: Narendr <narendramurukurthi@gmail.com>
Date:   Sun Dec 3 19:26:28 2023 +053
```

6.creating and switching Branches:

To create a new branch and switch to it use 'git checkout -b'

```
D:\Devops>git checkout -b mynewbranch
Switched to a new branch 'mynewbranch'
```

7.Merging Branches:

To Merge changes from one branch to another use the 'git merge' command.for example to merge changes from feature-branch into another branch.

```
D:\Devops>git merge newbranch
Already up to date.
```

8.cloning a repository:

To clone a remote git repository to your local machine use the 'git clone'

git clone https://narendra/documents

```
Cloning into 'Documents'...
remote: Enumerating objects: 37, done.
remote: Counting objects: 100% (37/37), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 37 (delta 5), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (37/37), 1.91 MiB | 2.72 MiB/s, done.
Resolving deltas: 100% (5/5), done.
```

9.pushing changes to a remote repository:

To push your local changes to a remote repository use 'git push origin main'

```
Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up D:\Devops>git push -u origin main

to 8 threads

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

Writing objects: 100% (3/3), 335 bytes | 335.00 KiB/s, done.

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

To https://github.com/narendra/myfile.git

 44c9bc1..133e0f3  main -> main

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

10.pulling changes from a remote repository:

To get the latest changes from a remote repository use the 'git pull' command

git pull https://narendra/documents

```
remote: Enumerating objects: 18, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (16/16), done.
Unpacking objects: 100% (18/18), 110.28 KiB | 1.38 MiB/s, done.
remote: Total 18 (delta 0), reused 0 (delta 0), pack-reused 0
```