# **Assignment-1 Git**

Task-1 Task-2

# ▼ Task-1

• Demonstrate minimum of 15 basic Git command with explanation and screenshot.

#### Solution:

- 1. git init
  - · Initializes the git repository

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git init
Initialized empty Git repository in C:/Naveen/DataScienceProjects/gitAssignment/.git/
```

- 2. git config —global <<config\_name>> <<config\_value>>
  - Configures the user name/user email for git

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git config --global user.name Naveen Karanth PS C:\Naveen\DataScienceProjects\gitAssignment> []
```

- 3. git remote add origin <<url>>
  - Adds the remote repository URL to the git as 'origin'.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git remote add origin https://github.com/nav52/gitAssignment.git
PS C:\Naveen\DataScienceProjects\gitAssignment> []
```

- 4. git remote -v
  - Verifies the origin to see if the fetch and push URLs are correctly configured.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git remote -v origin https://github.com/nav52/gitAssignment.git (fetch) origin https://github.com/nav52/gitAssignment.git (push)
```

# 5. git pull origin main

• Pulls the remote repository to the local repository.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git pull origin main From https://github.com/nav52/gitAssignment
* branch main -> FETCH_HEAD
```

## 6. git status

• Show the status of the files (tracked and untracked)

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git status
On branch main
Changes not staged for commit:
   (use "git add/rm <file>..." to update what will be committed)
   (use "git restore <file>..." to discard changes in working directory)
        modified: README.md
        deleted: src/README.nd

Untracked files:
   (use "git add <file>..." to include in what will be committed)
        src/README.md

no changes added to commit (use "git add" and/or_"git commit -a")
```

#### 7. git add.

Adds all the untracked files to the staging area.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git add .
PS C:\Naveen\DataScienceProjects\gitAssignment> git status
On branch main
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        modified: README.md
        renamed: src/README.nd -> src/README.md
```

# 8. git commit -m <<Commit\_message>>

Commits the staged files to the local repository.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git commit -m "Modified README.md" [main dd39dac] Modified README.md
2 files changed, 1 insertion(+), 2 deletions(-)
rename src/{README.nd => README.md} (100%)
```

# 9. git push origin main

 Pushes the recent commits to the remote repository from the main branch.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git push origin main Enumerating objects: 5, done.

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

Delta compression using up to 12 threads

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

Writing objects: 100% (3/3), 337 bytes | 168.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/nav52/gitAssignment.git

6d828d4..dd39dac main -> main
```

## 10 . git branch

• Displays the branches in the repository.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git branch
* main
```

#### 11. git branch <<br/>branch name>>

Creates a new branch with the given <<br/>branch name>>

- 12. git checkout <<br/>branch name>>
  - Switches to the <<br/>branch\_name>> from the current branch.

PS C:\Naveen\DataScienceProjects\gitAssignment> git checkout readmeUpdater Switched to branch 'readmeUpdater'

- 13. git merge <<br/>branch name>>
  - Merges the <<br/>branch name>> to the current branch.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git merge readmeUpdater
Updating dd39dac..931b1f0
Fast-forward
README.md | 2 ++
1 file changed, 2 insertions(+)
```

- 14. git branch -d <<br/>branch name>>
  - Deletes the branch <<br/>branch name>>

PS C:\Naveen\DataScienceProjects\gitAssignment> git branch -d readmeUpdater Deleted branch readmeUpdater (was 931b1f0).

#### 15. git log

 Displays the history of commits with commit hash, Author name and email, Timestamp and commit message.

```
PS C:\Naveen\DataScienceProjects\gitAssignment> git log
commit 931b1f0a1f0ab6ffd9454e452439df88acf13659 (HEAD -> main, readmeUpdater)
Author: Naveen <naveenfaster@gmail.com>
Date: Sat Oct 1 15:25:58 2022 +0530

Updated README from readmeUpdater branch

commit dd39dacde82acbeef6121d455c9ba0f9f5e0bbb3 (origin/main)
Author: Naveen <naveenfaster@gmail.com>
Date: Sat Oct 1 15:19:41 2022 +0530

Modified README.md

commit 6d828d45c5ffa07bc53ecc2916457647d78af868
Author: Naveen Karanth <37159044+nav52@users.noreply.github.com>
Date: Sat Oct 1 15:02:43 2022 +0530

Initial commit
```

# Task-2

Consider that your want to start an open-source project in your organization. Perform all the standard operation to create a repository with minimal permission for all the users. It should contain.

- 1. Proper open source structure
- 2. Proper Readme
- 3. Add 2 collaborator
- 4. Host GitHub Pages using settings (Designed to host your personal, organization, or project pages from a GitHub repository)