

# Module 2: Working with Git Repositories

### Demo 3: Demo on working with remote repositories.

### **Problem Statement:**

What are the different operations that can be performed on remote repositories using git Bash?

### **Solution:**

Step 1: In this demo, we are initializing new git repositories into our local repository, and then add it to a remote repository and then we perform cloning of a remote repository into our local system. Let us initialise our fresh git repository.

Command Used: git init

Step 2: Add our Project into the local repository.

Command Used: git add.
Command Used: git status

Step 3: Let us connect this local repository into a remote repository. To connect local repository with a remote repository. A remote repository can have a name set to prevent the repository URL from being remembered.

```
# Add remote repository

$ git remote <command> <remote_name> <remote_URL>

# List named remote repositories

$ git remote -v

Terminal

$ git remote -v

origin https://github.com/nitindhariyal/Demo.git (fetch)
origin https://github.com/nitindhariyal/Demo.git (push)
```

Let us get the link of the remote repository in which we want to add our local repository.

```
Quick setup — if you've done this kind of thing before

or https://github.com/nitindhariyal/demo5.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.
```

Let us add our local project into remote repo using command:

# git remote add origin

```
Terminal

-[~/Desktop/Programs/Git]

$git remote add origin https://github.com/nitindhariyal/demo5.git

-[~/Desktop/Programs/Git]

$git remote -v

origin https://github.com/nitindhariyal/demo5.git (fetch)

origin https://github.com/nitindhariyal/demo5.git (push)

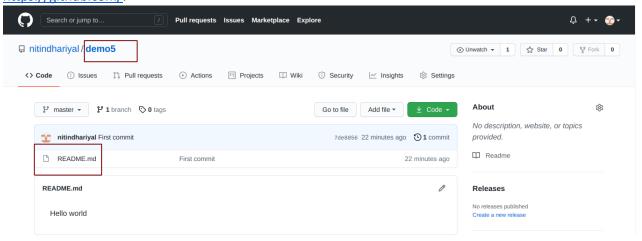
-[~/Desktop/Programs/Git]

$ | -[~/Desktop/Programs/Git]
```

Step 4: Let us push our local project to a remote repository.

## Command used: git push -u origin master

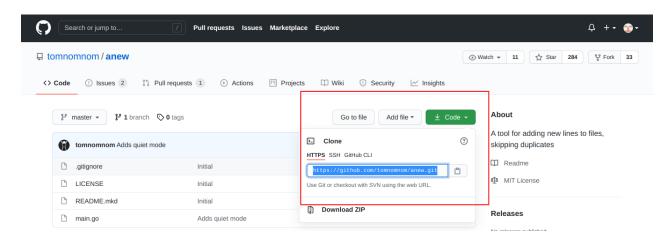
Let us check our GitHub if this local repository is added to our remote repository or not. Open https://github.com/.



Step 4: Use git clone to copy and download the repository to a computer to create local working copy of an existing remote repository. When working on a remote repository, cloning is the same as git init. Git will locally create a directory with all repository histories and files.

Command used: git clone \$ git clone <remote\_URL>

open that repository which you want to clone into your local system,



then use the command which is used earlier.

```
|-[~/Desktop/Programs/Git] | $git clone https://github.com/tomnomnom/anew.git Cloning into 'anew'...
remote: Enumerating objects: 17, done.
remote: Total 17 (delta 0), reused 0 (delta 0), pack-reused 17
Receiving objects: 100% (17/17), 4.05 KiB | 2.02 MiB/s, done.
Resolving deltas: 100% (6/6), done.
|-[~/Desktop/Programs/Git]
```

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