GIT - Tutorial

OVERVIEW :

1. Install GIT in the local system.
2. Create a GITHUB Account.
3. Create a GITHUB Repository (new repository - public/private - create repository).
4. Map local and GITHUB Repository.

How to install GIT?

1. For MAC/Linux users GIT will be present by default (most of the times)
2. For Windows : Please follow the below instructions to install GIT on your machine.

   https://github.com/git-guides/install-git

Steps and commands :

Post installation of GIT :

1. Open GIT Bash
2. Look at the current working directory : **pwd**
3. Create a directory : **mkdir <dirname>** : eg : mkdir gitclass
4. **cd ./gitclass**
5. **ls -al / ls -a** (look at . , ..)
6. **git init**
7. Create a file inside the directory (trial)
8. **git status**
9. **git add <filename>** and check status
10. **cat <filename>**

- Everytime the file is changed it has to be added to GIT.
- To commit use the command : **git commit -sm “first commit”**
- **git log**

Now make changes to the file*

1. Look at the status - **git status**
2. Observe the difference in the previous and current file using - **git diff**
3. Add the file to git - **git add <filename>**
4. Check the status - **git status**
5. Now commit - **git commit -sm “commit 2”**

*****If you wish to revert changes back to the original****
1. Use command - **git reset - - hard <#value>** { #value is obtained when you commit and can be found in the logs}

How to map the local to the GITHUB repository?

1. **git remote add origin <url from git>**
2. **git push origin main**