Git and GitHub Setup - Documentation

Overview:

This document shows you how to setup git and GitHub and push files from local repository to GitHub repository, it explains about step-by-step process.

What you will accomplish:

- Install Git bash in local computer.
- Create GitHub account.
- SSH authentication between local computer and GitHub account
- Integrate local repository and GitHub repository.
- Upload local files to GitHub.

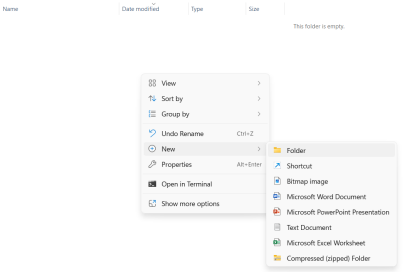
Prerequisites:

- Download Git Bash from internet.
- GitHub accoun.

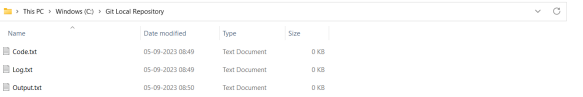
Implementation:

Step-1: Create new folder and copy files to this folder.

Step-1.1: Create a new folder in local computer and give name ex. Git Local Repository

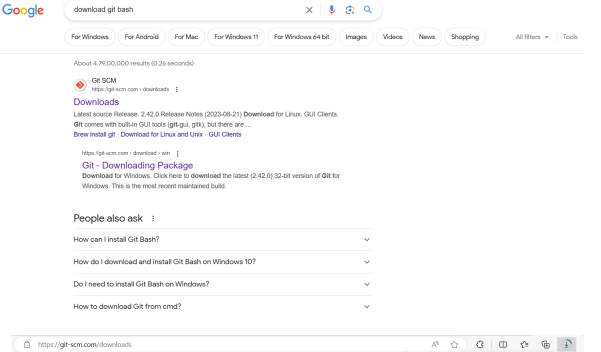


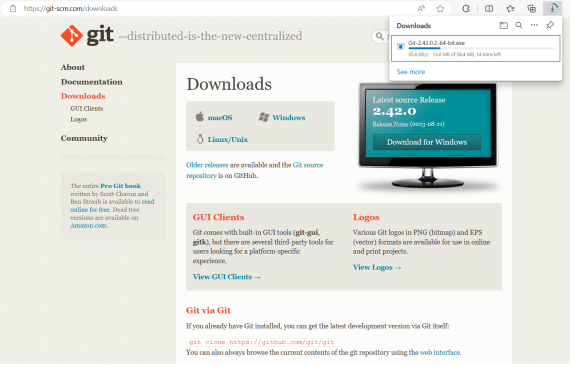
Step-1.2: Copy files to this folder or create new files.



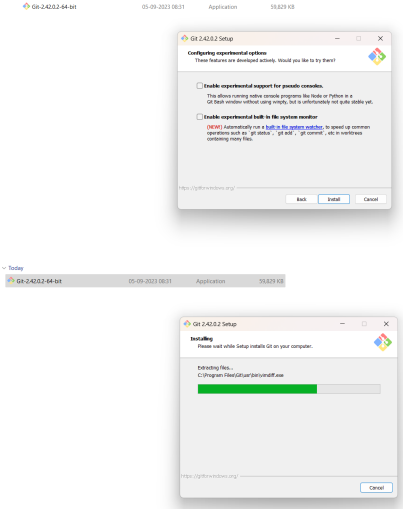
Step-2: Download and Install Git bash in local system.

Step-2.1: Download git bash from internet.



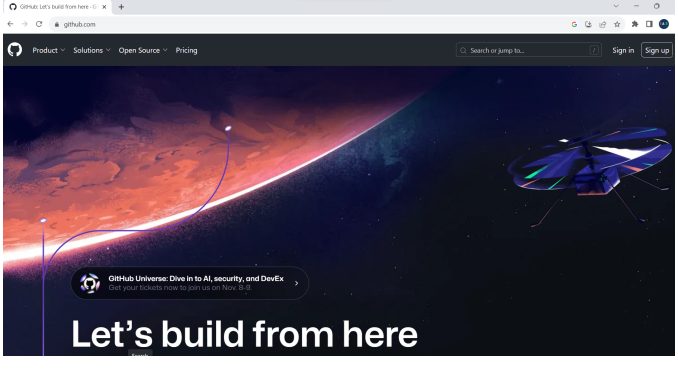


Step-2.2: Install Git bash in local computer



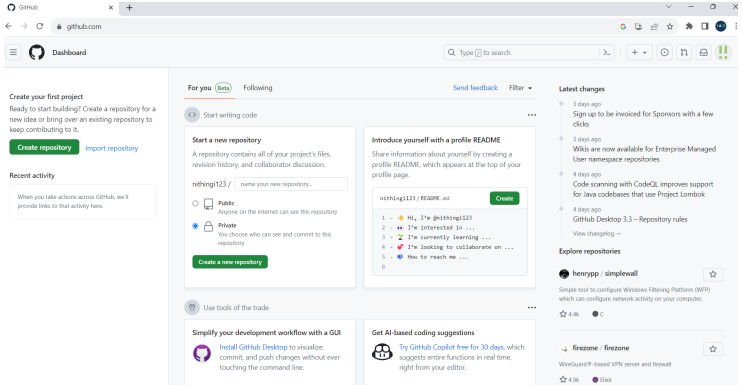
Step-2: Create GitHub account..

Step-2.1: Open github.com website.



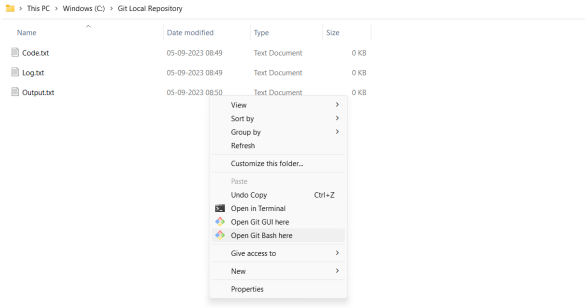
Step-2.2: Click on signup option to create new account.

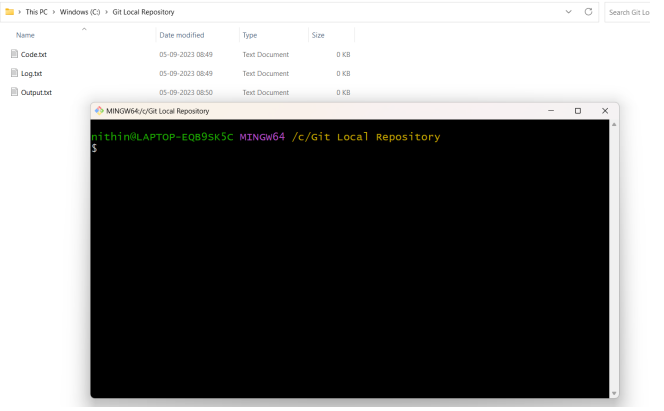
1. It will ask Email Id, Password and Username enter details and click on create account option.
2. It will send verification code to your mail, copy code form mail and submit.
3. It will ask some basic questions, answer the questions and click on continue for free option.
4. Finally, it shows like below image



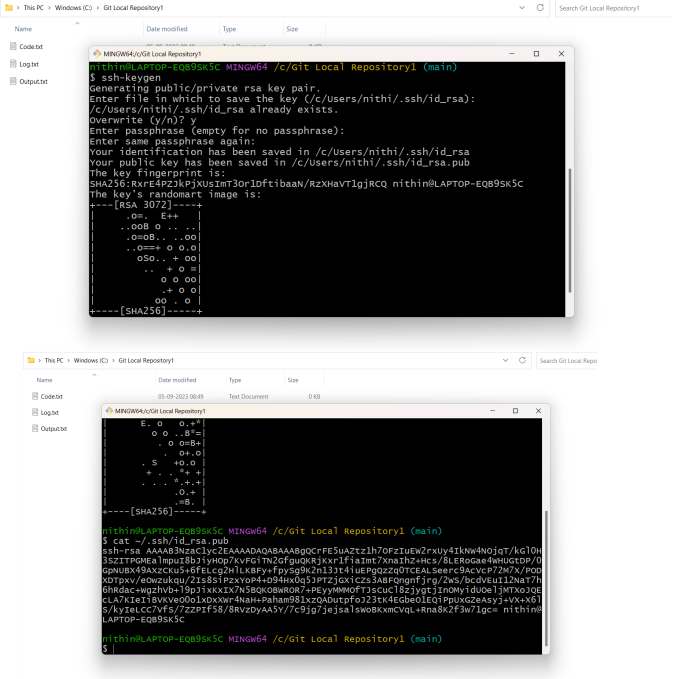
Step-3: SSH connection between GitHub and local computer.

Step-3.1: Right click in new folder created in local computer and click on Git Bash here option, it opens Git command prompt window.

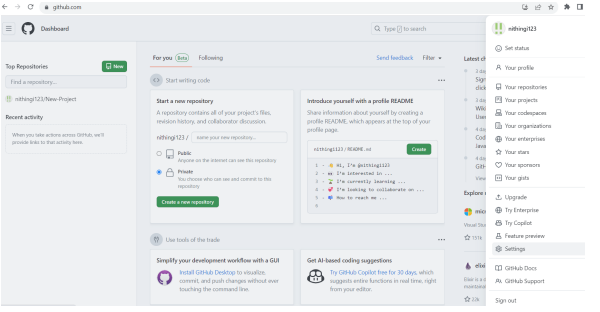




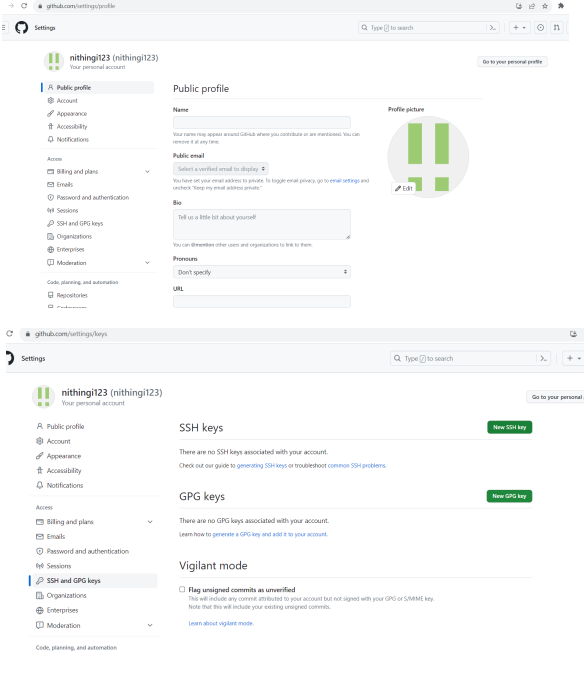
Step-3.2: Generate SSH key by typing command 'ssh-keygen' and copy the key.



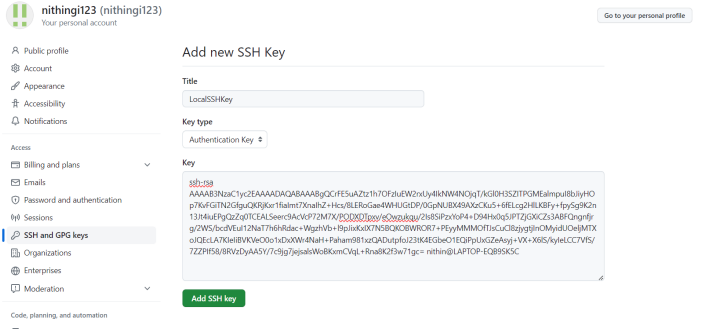
Step-3.3: Click on the GitHub account profile image (right corner of the page) and click on settings option.



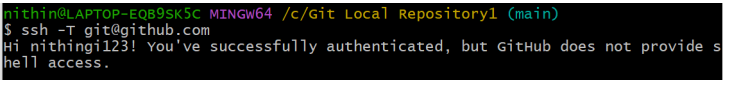
Step-3.4: Click on SSH and GPG Keys option and then click on New SSHKey option.



Step-3.5: Enter SSH Key name and past SSH Key copied from Git Bash (step-3.2)

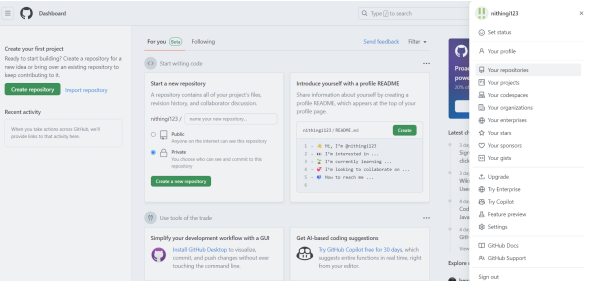


Step-3.6: Test the SSH connection by executing ' ssh -T git@github.com' command on Git bash command prompt.

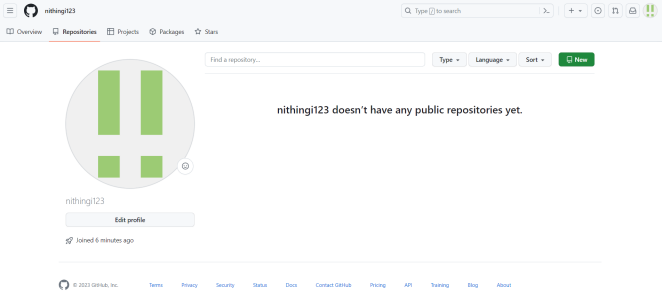


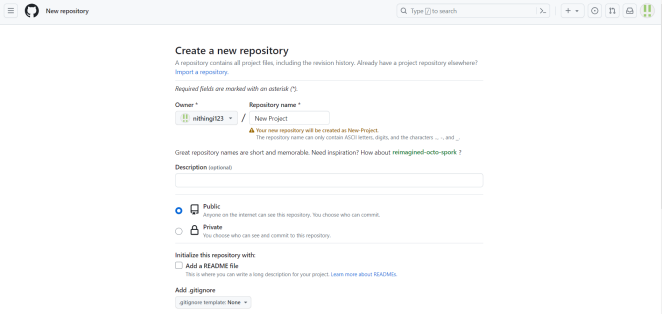
Step-4: Create GitHub repository.

Step-4.1: Click on the GitHub account profile image (right corner of the page) and click on your repositories option.

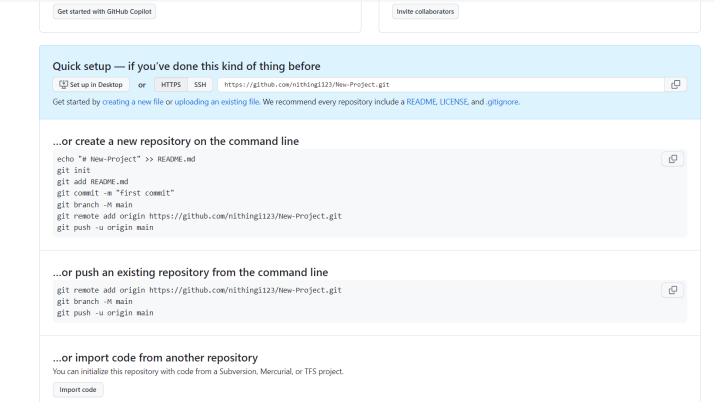


Step-4.2: Create new repository by clicking on New option in page and enter name of repository, select public or private repository option and click on create option.



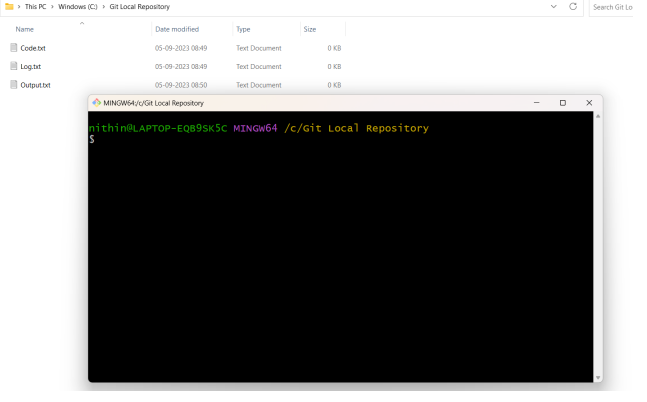


Step-4.3: Open new repository and follow the commends to upload files to GitHub from local repository.



Step-5: Upload files to GitHub from local repository

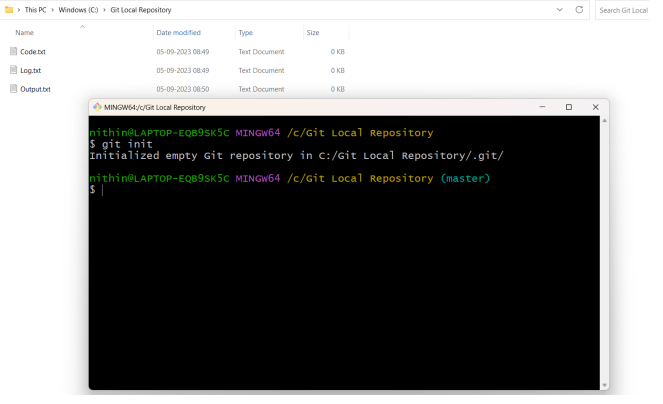
Step-5.1: Open Git Bash in folder where files are located.



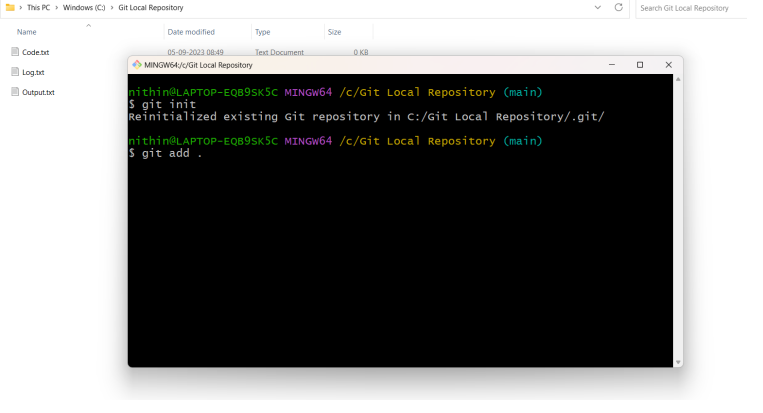
Step-5.2: Execute following commands on Git Bash command prompt.

- git init
- git add .
- git commit -m 'first commit'
- git branch -M main
- git remote add origin git@github.com:nithingidigi1/New-Project1.git (copy this from GitHub repository SSH tab)
- git push -u origin main

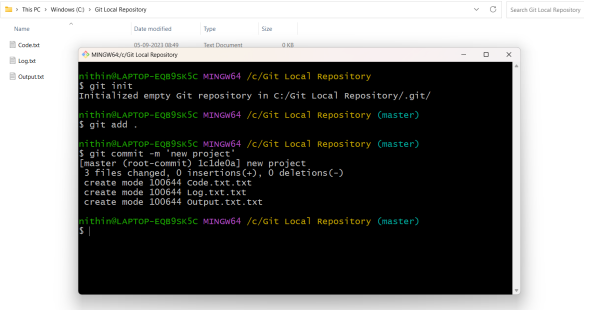
Step-5.2.1: Execute 'git init' command.



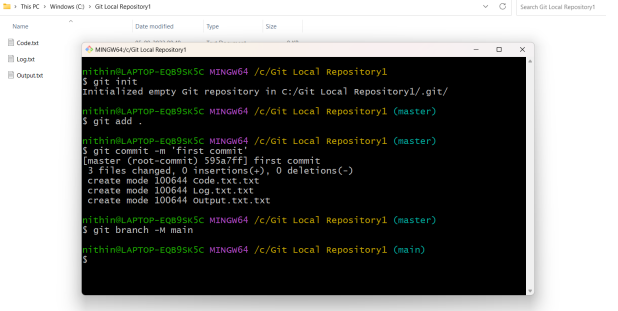
Step-5.2.2: Execute 'git add .' command. ('.' means current folder)



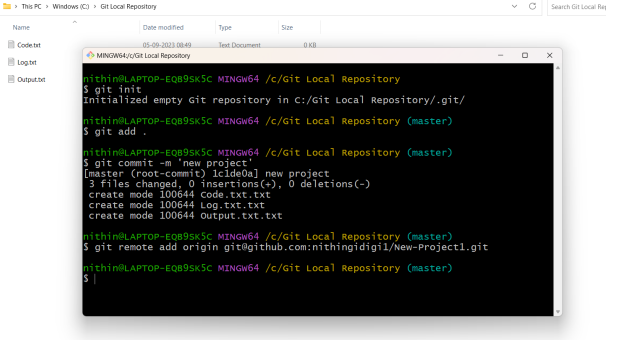
Step-5.2.3: Execute 'git commit -m 'first commit'' command.



Step-5.2.4: Execute 'git branch -M main'' command.



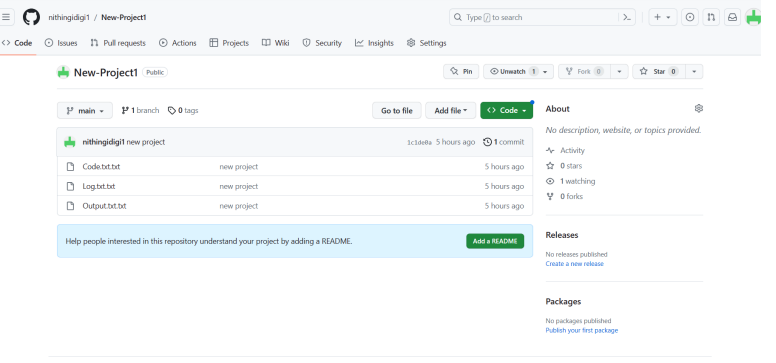
Step-5.2.5: Execute 'git remote add origin git@github.com:nithingidigi1/New-Project1.git'' command.



Step-5.2.6: Execute 'git push origin main' command.

```
nithin@LAPTOP-EQB9SK5C MINGW64 ~/Downloads/New folder (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 209 bytes | 209.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:nithingi123/New-Project.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Step-5.3: Open GitHub repository and check files.



Conclusion:

This document explained step by step process about how to establish connection between GitHub and local server and how to push files from local repository to GitHub repository.