

## VCS Task

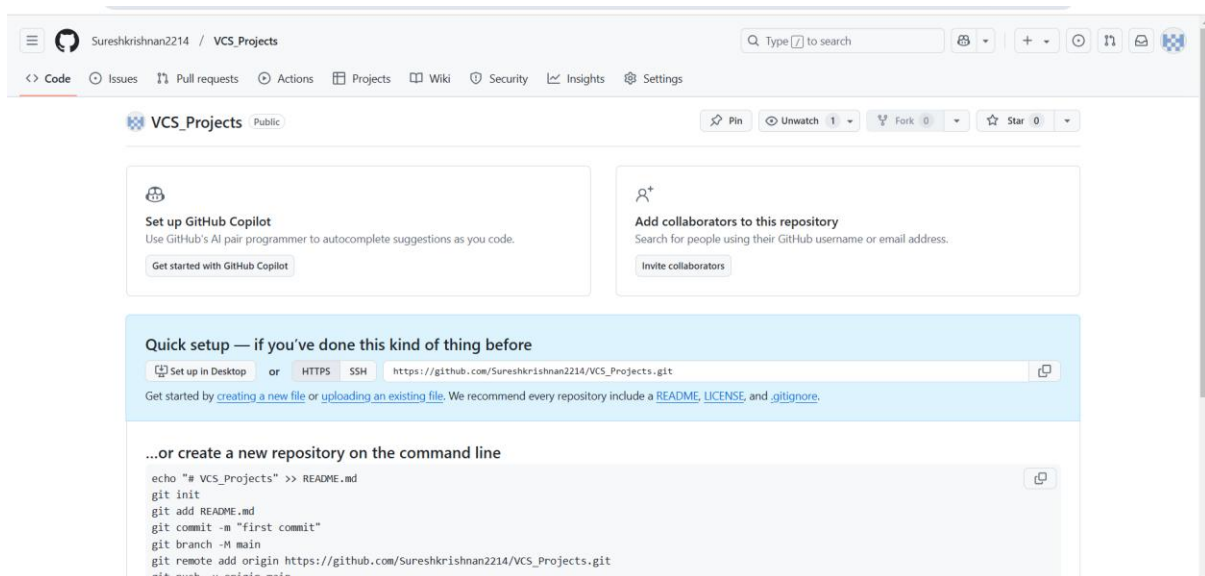
Creating a new directory and add script files in the local directory.

```
Windows PowerShell x sureshk@SSMS: ~/DevOps/VCS x + v
sureshk@SSMS:~/DevOps$ mkdir VCS_Project
sureshk@SSMS:~/DevOps$ cd VCS_Project
sureshk@SSMS:~/DevOps/VCS_Project$ echo '#!/bin/bash' > script1.sh
sureshk@SSMS:~/DevOps/VCS_Project$ echo 'echo "Hello World and this is script1"' >> script1.sh
sureshk@SSMS:~/DevOps/VCS_Project$ chmod +x script1.sh
sureshk@SSMS:~/DevOps/VCS_Project$ echo '#!/bin/bach' > script2.sh
sureshk@SSMS:~/DevOps/VCS_Project$ echo 'echo "Hello Works and this is script2"' >>script2.sh
sureshk@SSMS:~/DevOps/VCS_Project$ chomod +x script2.sh
Command 'chomod' not found, did you mean:
  command 'chomod' from deb coreutils (9.4-2ubuntu2)
Try: sudo apt install <deb name>
sureshk@SSMS:~/DevOps/VCS_Project$ chmod +x script2.sh
sureshk@SSMS:~/DevOps/VCS_Project$
```

Initializing a Git repository Locally.

```
Windows PowerShell x sureshk@SSMS: ~/DevOps/VCS x + v
sureshk@SSMS:~/DevOps/VCS_Project$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:     git config --global init.defaultBranch <name>
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:     git branch -m <name>
Initialized empty Git repository in /home/sureshk/DevOps/VCS_Project/.git/
sureshk@SSMS:~/DevOps/VCS_Project$ ls
```

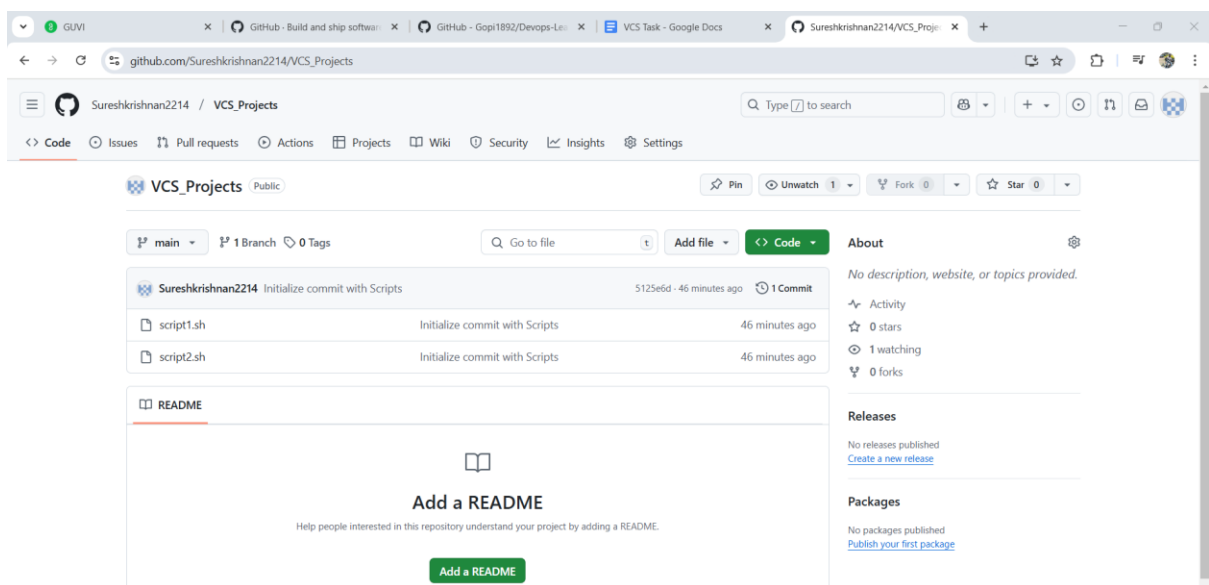
Creating a New Repository in GitHub.



## Linking Local repository to GitHub and Pushing the files into Repository.

```
Windows PowerShell
sureshk@SSMS: ~/DevOps/VK
sureshk@SSMS:~/DevOps/VCS_Project$ git remote add origin https://github.com/Sureshkrishnan2214/VCS_Projects.git
sureshk@SSMS:~/DevOps/VCS_Project$ git branch -M main
sureshk@SSMS:~/DevOps/VCS_Project$ git push -u origin main
git: 'push' is not a git command. See 'git --help'.

The most similar command is
push
sureshk@SSMS:~/DevOps/VCS_Project$ git push -u origin main
Username for 'https://github.com': Suresh Krishnan
Password for 'https://Suresh%20Krishnan@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information
fatal: Authentication failed for 'https://github.com/Sureshkrishnan2214/VCS_Projects.git/'
sureshk@SSMS:~/DevOps/VCS_Project$ git push -u origin main
Username for 'https://github.com': Suresh Krishnan
Password for 'https://Suresh%20Krishnan@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 18 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 370 bytes | 185.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sureshkrishnan2214/VCS_Projects.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
sureshk@SSMS:~/DevOps/VCS_Project$
```



## Creating a new branch and merging:

```
Windows PowerShell
sureshk@SSMS: ~/DevOps/VK
sureshk@SSMS:~/DevOps/VCS_Project$ git checkout -b feature1
Switched to a new branch 'feature1'
sureshk@SSMS:~/DevOps/VCS_Project$ echo 'echo "This is a new feature1"' >> script1.sh
sureshk@SSMS:~/DevOps/VCS_Project$ git add .
sureshk@SSMS:~/DevOps/VCS_Project$ git commit -m "Added a new feature"
[feature1 a2b2b8c] Added a new feature
1 file changed, 1 insertion(+)
sureshk@SSMS:~/DevOps/VCS_Project$ git checkout
sureshk@SSMS:~/DevOps/VCS_Project$ git branch
* feature1
main
sureshk@SSMS:~/DevOps/VCS_Project$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
sureshk@SSMS:~/DevOps/VCS_Project$ git branch
feature1
* main
sureshk@SSMS:~/DevOps/VCS_Project$
```

### Merge Command:

```
sureshk@SSMS:~/DevOps/VCS_Project$ git merge feature1
Updating 5125e6d..a2b2b8c
Fast-forward
 script1.sh | 1 +
 1 file changed, 1 insertion(+)
sureshk@SSMS:~/DevOps/VCS_Project$
```

### Rebase Command:

```
sureshk@SSMS:~/DevOps/VCS_Project$ git checkout -b rebase_feature
Switched to a new branch 'rebase_feature'
sureshk@SSMS:~/DevOps/VCS_Project$ echo 'echo "Rebashing created new feature"' >> script2.sh
sureshk@SSMS:~/DevOps/VCS_Project$ git add .
sureshk@SSMS:~/DevOps/VCS_Project$ git commit -m "Added new rabash feature"
[rebase_feature 0f8f642] Added new rabash feature
 1 file changed, 1 insertion(+)
sureshk@SSMS:~/DevOps/VCS_Project$ git branch
  feature1
  main
* rebase_feature
sureshk@SSMS:~/DevOps/VCS_Project$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
sureshk@SSMS:~/DevOps/VCS_Project$ git push origin main
Username for 'https://github.com': Suresh Krishnan
Password for 'https://Suresh%20Krishnan@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 18 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 351 bytes | 175.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sureshkrishnan2214/VCS_Projects.git
 5125e6d..a2b2b8c  main -> main
sureshk@SSMS:~/DevOps/VCS_Project$ git rebase rebase_feature
git: 'rebase' is not a git command. See 'git --help'.

The most similar command is
  rebase
sureshk@SSMS:~/DevOps/VCS_Project$ git rebase rebase_feature
Successfully rebased and updated refs/heads/main.
sureshk@SSMS:~/DevOps/VCS_Project$
```

## Stash Command:

```
Windows PowerShell x sureshk@SSMS: ~/DevOps/VCS x + v
sureshk@SSMS:~/DevOps/VCS_Project$ echo 'echo "Temporary change"' >> script1.sh
sureshk@SSMS:~/DevOps/VCS_Project$ git stash
Saved working directory and index state WIP on main: 0f8f642 Added new rabash feature
sureshk@SSMS:~/DevOps/VCS_Project$ git stash list
stash@{0}: WIP on main: 0f8f642 Added new rabash feature
sureshk@SSMS:~/DevOps/VCS_Project$
```

## Pushing all the files to Git Repo:

```
Windows PowerShell x sureshk@SSMS: ~/DevOps/VCS x + v
sureshk@SSMS:~/DevOps/VCS_Project$ git push origin main
Username for 'https://github.com': Suresh Krishnan
Password for 'https://Suresh%20Krishnan@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 18 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 367 bytes | 183.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sureshkrishnan2214/VCS_Projects.git
a2b2b8c..0f8f642 main -> main
sureshk@SSMS:~/DevOps/VCS_Project$
```

