#### **VCS Task**

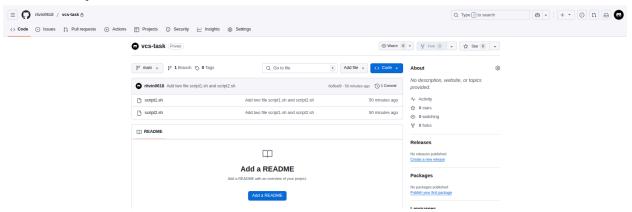
## **Task Description:**

Establish a new directory, populate it with script files, initiate an empty repository on GitHub, convert the local directory into a Git repository, and link it to GitHub for pushing the code into the repository. Perform merge, rebase, stash commands in following github repo.

## New directory creation with script files:

```
vineeth@vineeth-pc:~$ cd Dev/
vineeth@vineeth-pc:~/Dev$ ls
aws-ci-cd-demo devops-playground spiky-gold-practice
vineeth@vineeth-pc:~/Dev$ mkdir vcs-task
vineeth@vineeth-pc:~/Dev$ cd vcs-task/
vineeth@vineeth-pc:~/Dev/vcs-task$ vim script1.sh
vineeth@vineeth-pc:~/Dev/vcs-task$ vim script2.sh
vineeth@vineeth-pc:~/Dev/vcs-task$ ls -la
total 16
drwxrwxr-x 2 vineeth vineeth 4096 Jul 2 10:51 .
drwxrwxr-x 6 vineeth vineeth 4096 Jul 2 10:50 ..
-rw-rw-r- 1 vineeth vineeth 166 Jul 2 10:50 script1.sh
-rw-rw-r- 1 vineeth vineeth 83 Jul 2 10:51 script2.sh
```

# Git Hub repo creation:



### Initialize Local Git Repo & Connect to GitHub:

```
vineeth@vineeth-pc:~/Dev/vcs-task$ git init
Initialized empty Git repository in /home/vineeth/Dev/vcs-task/.git/
vineeth@vineeth-pc:~/Dev/vcs-task$ ls -la
total 20
drwxrwxr-x 3 vineeth vineeth 4096 Jul 2 10:57
drwxrwxr-x 6 vineeth vineeth 4096 Jul 2 10:50 ...
drwxrwxr-x 7 vineeth vineeth 4096 Jul 2 10:57 .git
-rwxrwxr-x 1 vineeth vineeth 166 Jul 2 10:50 script1.sh
-rwxrwxr-x 1 vineeth vineeth 83 Jul 2 10:51 script2.sh
vineeth@vineeth-pc:~/Dev/vcs-task$ git add .
vineeth@vineeth-pc:~/Dev/vcs-task$ git status
On branch main
No commits yet
Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
            new file: script1.sh
new file: script2.sh
vineeth@vineeth-pc:~/Dev/vcs-task$ git commit -m "Add two file script1.sh and script2.sh"
[main (root-commit) 6e8baf9] Add two file script1.sh and script2.sh
 2 files changed, 16 insertions(+)
 create mode 100755 script1.sh
 create mode 100755 script2.sh
vineeth@vineeth-pc:~/Dev/vcs-task$ git branch -M main
vineeth@vineeth-pc:~/Dev/vcs-task$ git remote add origin https://github.com/ritvin0618/vcs-task
vineeth@vineeth-pc:~/Dev/vcs-task$ git push -u origin main
Username for 'https://github.com': ritvin0618
Password for 'https://ritvin0618@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 441 bytes | 441.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ritvin0618/vcs-task
 * [new branch]
                            main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
vineeth@vineeth-pc:~/Dev/vcs-task$
```

# Create a New Branch and merge to main branch:

```
viencethpicineth.pc:-/Dev/vcs.task$ git status
On branch has
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
viencethpicineth.pc:-/Dev/vcs.task$ git checkout -b feature-branch
Switched to a new branch 'feature-branch
Viencethpicineth.pc:/Dev/vcs.task$ git checkout -b feature-branch
Viencethpicineth.pc:/Dev/vcs.task$ git status
On original ori
```

# Create New Branch for Rebase Switch back and make a new commit on main:

```
vineethgvineeth-pc:-/Oev/vcs-task$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
((use "git push" to publish your local commits)
nothing to commit, working free cleam
vineethgvineeth-pc:-/Dev/vcs-task$ git checkout -b rebase-branch
Switched to a new branch 'rebase-branch'
vineethgvineeth-pc:-/Dev/vcs-task$ git status
On branch rebase-branch
Changes not staged for commit:
((use "git add =frle>..." to update what will be committed)
((use "git restore =frle>..." to discard changes in working directory)
modified :script2.sh

no changes added to commit (use "git add" and/or "git commit -a")
vineethgvineeth-pc:-/Dev/vcs-task$ git add script2.sh
vineethgvineeth-pc:-/Dev/vcs-task$ git commit -a "Rebase branch changes"
[rebase branch sprabe] Rebase branch changes

if lie changed, i insertion()
vineethgvineeth-pc:-/Dev/vcs-task$ git commit -a "Rebase branch changes"
[rebase branch sprabe] Rebase branch changes

if lie changed, insertion()
vineethgvineeth-pc:-/Dev/vcs-task$ git commit.

Your branch is ahead of "origin/main" by 1 commit.
((use "git push" to publish your local commits)
vineethgvineeth-pc:-/Dev/vcs-task$ git dad script2.sh
vineethgvineeth-pc:-/Dev/vcs-task$ git dad script2.sh
vineethgvineeth-pc:-/Dev/vcs-task$ git commit -a "Nain branch updated"
[Insh docean] Main branch updated

I file changed, 1 insertion(+)
vineethgvineeth-pc:-/Dev/vcs-task$ git commit -a "Nain branch updated"
[Insh docean] Main branch updated

I file changed, 1 insertion(+)
vineethgvineeth-pc:-/Dev/vcs-task$ git checkout rebase-branch
Switched to branch "rebase-branch"
vineethgvineeth-pc:-/Dev/vcs-task$ git rebase main
hint: "Resolve all conflicts nanually, nark them as resolved with
hint: "Out and only apdated to the state before "git rebase --continue".
hint: You can instance skip this commit run "git rebase --continue".
hint: You can instance skip this commit run "git rebase --continue".
little changed, 4 insertions(+)
Successfully rebase and updated refs/heads/rebase-branch.
vineethgvineeth-pc:-/De
```

#### **Use Git Stash:**