


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.

Establish a New Directory

- mkdir guvi_project
- vi script1.sh
- vi script2.sh
- chmod +x script1.sh
- chmod +x script2.sh

 MINGW64:/c/Users/smoorthy7/Downloads

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads
$ mkdir guvi_project

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads
$ |
```

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project
$ ll
total 0
-rw-r--r-- 1 EAD+smoorthy7 4096 0 Nov 19 08:34 script1.sh
-rw-r--r-- 1 EAD+smoorthy7 4096 0 Nov 19 08:34 script2.sh

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project
$ |
```

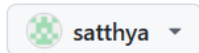
Initiate Empty Repository on GitHub

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk ().*

Owner *



Repository name *

/ Git_Hub Task

✔ Your new repository will be created as **Git_Hub-Task**.

The repository name can only contain ASCII letters, digits, and the characters ., -, and _.

Great repository names are short and memorable. Need inspiration? How about **solid-chainsaw** ?

Description (optional)

This task currently focuses on core GitHub command and services as part of my GitHub learning journey



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:



Add a README file

This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a license

License: None ▾

A license tells others what they can and can't do with your code. [Learn more about licenses.](#)



You are creating a public repository in your personal account.

Create repository

Convert the local directory into a Git repository

- `git init`
- `git add .`
- `git commit -m "first commit"`
- `git remote add origin https://github.com/satthya/GitHub-Task.git`
- `git push -u origin main`

```
MINGW64:/c:/Users/smoorthy7/Downloads/guvi_project

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project
$ ll
total 0
-rw-r--r-- 1 EAD+smoorthy7 4096 0 Nov 19 08:34 script1.sh
-rw-r--r-- 1 EAD+smoorthy7 4096 0 Nov 19 08:34 script2.sh

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project
$ git init
Initialized empty Git repository in C:/Users/smoorthy7/Downloads/guvi_project/.git/


EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git add .




EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git commit -m "first commit"
[main (root-commit) 4ddb78] first commit
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 script1.sh
create mode 100644 script2.sh

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git remote add origin https://github.com/satthya/GitHub-Task.git


EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 217 bytes | 54.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/satthya/GitHub-Task.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.



EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ |
```

 **GitHub-Task** PublicUnpinUnwatch1

 main  1 Branch  0 Tags

Add file Code

 **satthya** first commit 4ddb78 · 1 minute ago 1 Commit

 script1.sh	first commit	1 minute ago
 script2.sh	first commit	1 minute ago

Perform merge, rebase, stash commands in following github repo

Merge branch

- Create new branch
 - git branch guvi

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git branch guvi

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git switch guvi
Switched to branch 'guvi'

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi)
$ |
```

- Make change in the branch
 - echo "test" >> script1.sh
 - git add .
 - git commit -m "update script1.sh"

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi)
$ git add .
warning: in the working copy of 'script1.sh', LF will be replaced by CRLF the next time Git touches it

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi)
$ git commit -m "update script1.sh guvi branch"
[guvi 5caf137] update script1.sh guvi branch
1 file changed, 1 insertion(+)

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi)
$ |
```

- Merge the branch
 - git switch main
 - git merge guvi

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi)
$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git merge guvi
Updating 4ddb78..5caf137
Fast-forward
 script1.sh | 1 +
1 file changed, 1 insertion(+)

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ |
```

Rebase

- Create new branch
 - git branch guvi2

 MINGW64:/c/Users/smoothy7/Downloads/guvi_project

```
EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git branch guvi2

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$
```

- Make change in the branch
 - git switch guvi2
 - echo "test" >> script2.sh
 - git add script2.sh
 - git commit -m "update script2.sh in guvi2"

```
EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git switch guvi2
Switched to branch 'guvi2'

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi2)
$ echo "test" >> script2.sh

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi2)
$ git add script2.sh
warning: in the working copy of 'script2.sh', LF will be replaced by CRLF the next time Git touches it

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi2)
$ git commit -m "update script2.sh in guvi2"
[guvi2 7524c72] update script2.sh in guvi2
1 file changed, 1 insertion(+)

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi2)
$
```

- Rebase
 - git switch main
 - git rebase guvi2

```
EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (guvi2)
$ git switch main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

EAD+smoothy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git rebase guvi2
Successfully rebased and updated refs/heads/main.
```

Stash

- echo "Temporary" >> temp.txt
- git stash -u
- git stash list
- git stash apply

```
EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git stash -u
warning: in the working copy of 'temp.txt', LF will be replaced by CRLF the next time Git touches it
Saved working directory and index state WIP on main: 7524c72 update script2.sh in guvi2

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git stash list
stash@{0}: WIP on main: 7524c72 update script2.sh in guvi2

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ git stash apply
Already up to date.
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    temp.txt

nothing added to commit but untracked files present (use "git add" to track)

EAD+smoorthy7@US-5CG00837WY MINGW64 ~/Downloads/guvi_project (main)
$ |
```