

## VCS Task

Created 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

```
MINGW64/c:/Users/Venkat Eshwar/devops-git-repo
venkat Eshwar@Venkat-TUF MINGW64 ~
$ pwd
/c:/Users/Venkat Eshwar

venkat Eshwar@Venkat-TUF MINGW64 ~
$ mkdir devops-git-repo

venkat Eshwar@Venkat-TUF MINGW64 ~
$ cd devops-git-repo

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo
$
venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo
$ vi script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo
$ git init
Initialized empty Git repository in C:/Users/Venkat Eshwar/devops-git-repo/.git/

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (master)
$ git branch -m master main

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git remote add origin https://github.com/Eshwar-venkat/devops-git-repo.git

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git commit -m "first commit"
On branch main
Initial commit

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

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

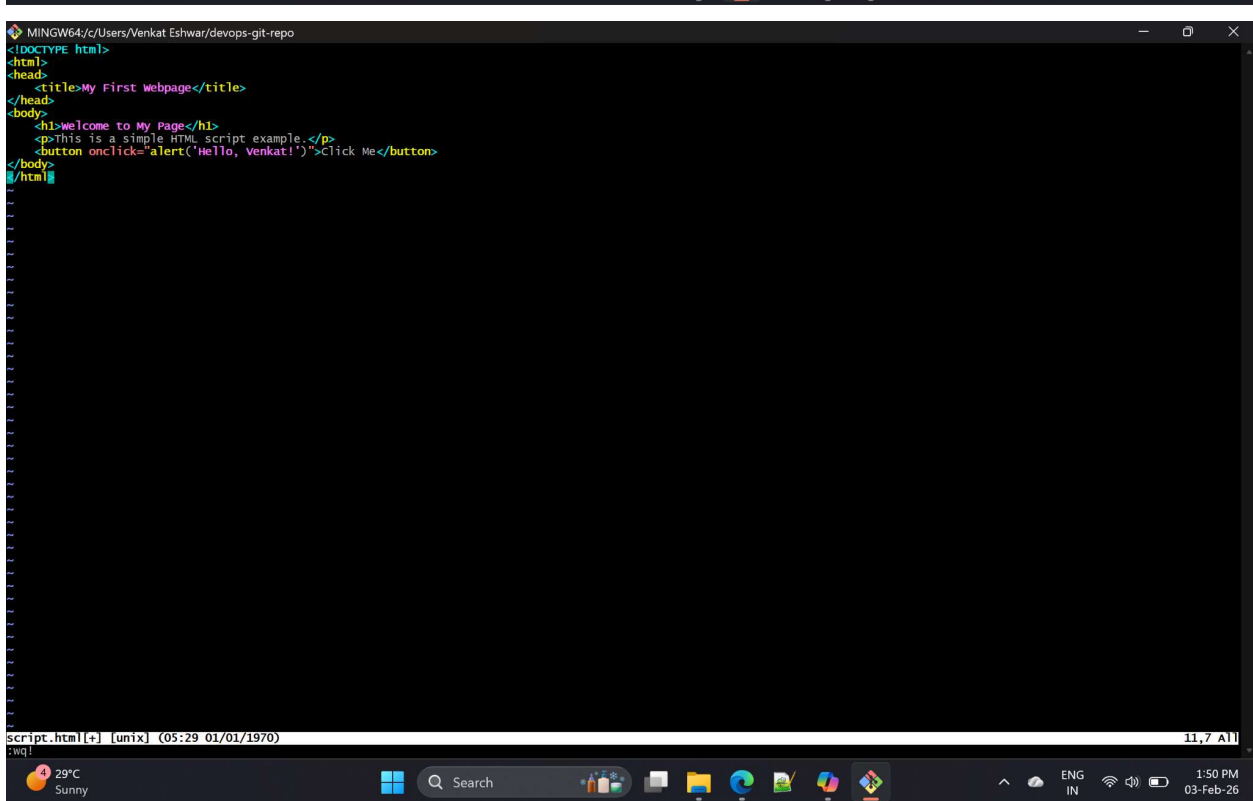
venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git add .
warning: in the working copy of 'script.html', LF will be replaced by CRLF the next time Git touches it

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git status
On branch main

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git commit -m "first commit"
```



```
venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git commit -m "first commit"
[main (root-commit) 7bbaf58] first commit
1 file changed, 11 insertions(+)
 create mode 100644 script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 388 bytes | 388.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
to https://github.com/Eshwar-venkat/devops-git-repo.git
 * [new branch]    main -> main
branch 'main' set up to track 'origin/main'.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git branch other-operation

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git checkout other-operation
Switched to branch 'other-operation'

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ echo "creating text file in separate branch" > newfile.txt
```

## stash commands

```
MINGW64/c/Users/Venkat Eshwar/devops-git-repo
venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ ls
newfile.txt  script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$
venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git status
On branch other-operation
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>.." to discard changes in working directory)
        modified:   script.html

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

no changes added to commit (use "git add" and/or "git commit -a")

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git stash
Saved working directory and index state WIP on other-operation: 7bbaf58 first commit

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git stash list
stash@{0}: WIP on other-operation: 7bbaf58 first commit

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git status
On branch other-operation
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        newfile.txt

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

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git stash pop
On branch other-operation
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>.." to discard changes in working directory)
        modified:   script.html

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

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (e27af30312b739bc154623e93ba7e4109809d314)

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$
```

## Perform merge

```
MINGW64/c/Users/Venkat Eshwar/devops-git-repo
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        newfile.txt

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (e27af30312b739bc154623e93ba7e4109809d314)

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git add .
warning: in the working copy of 'newfile.txt', LF will be replaced by CRLF the next time Git touches it

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git commit -m "second commit"
[other-operation 5e0fd0a] second commit
 2 files changed, 5 insertions(+)
 create mode 100644 newfile.txt

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git merge other-operation
Updating 7bbaf58..5e0fd0a
Fast-forward
 newfile.txt | 1 +
 script.html | 4 +++
 2 files changed, 5 insertions(+)
 create mode 100644 newfile.txt

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git branch
* main
  other-operation

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4) 484 bytes | 484.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Eshwar-venkat/devops-git-repo.git
    7bbaf58..5e0fd0a  main -> main

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git branch
* main
  other-operation

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ |
```

## Rebase operation

```
MINGW64/c/Users/Venkat Eshwar/devops-git-repo
$ git commit -m "3rd commit"
[other-operation 7ace3d2] 3rd commit
1 file changed, 1 insertion(+)
create mode 100644 anotherFile.txt

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git rebase main
Current branch other-operation is up to date.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ ls
newFile.txt script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git checkout other-operation
Switched to branch 'other-operation'

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ ls
anotherFile.txt newFile.txt script.html

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git rebase main
Current branch other-operation is up to date.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (other-operation)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git merge other-operation
Updating 5e0fd0a..7ace3d2
Fast-forward
  anotherFile.txt | 1 +
  1 file changed, 1 insertion(+)
  create mode 100644 anotherFile.txt

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 360 bytes | 360.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Eshwar-venkat/devops-git-repo.git
   5e0fd0a..7ace3d2  main -> main

venkat Eshwar@Venkat-TUF MINGW64 ~/devops-git-repo (main)
$
```

## Github Screenshot

