

## Experiment No. 1

### Title : Exploring Git Commands through Collaborative Coding.

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Navigate to Your Desired Directory :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 ~ (master)
$ cd D:

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d
$ cd calculator

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator
$ |
```

Initialize a New Git Repository :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator
$ git init
Initialized empty Git repository in D:/Calculator/.git/
```

Check the Status :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git status
On branch master

No commits yet

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

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

Stage the Changes :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git add index.html

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git add script.js

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git add styles.css
```

Commit the Changes :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git commit -m "add content to index,styles,script"
[master (root-commit) 02f4ef6] add content to index,styles,script
3 files changed, 17 insertions(+)
 create mode 100644 index.html
 create mode 100644 script.js
 create mode 100644 styles.css
```

## Check the Status Again :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git status
On branch master
nothing to commit, working tree clean
```

## View Differences :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git diff
```

## View Commit History :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git log
commit 02f4ef6f93b1b40ae3673c5d64c0e64a6648c647 (HEAD -> master)
Author: prasad26-cse <kabadeprasad9@gmail.com>
Date:   Wed Oct 16 15:12:29 2024 +0530

    add content to index,styles,script
```

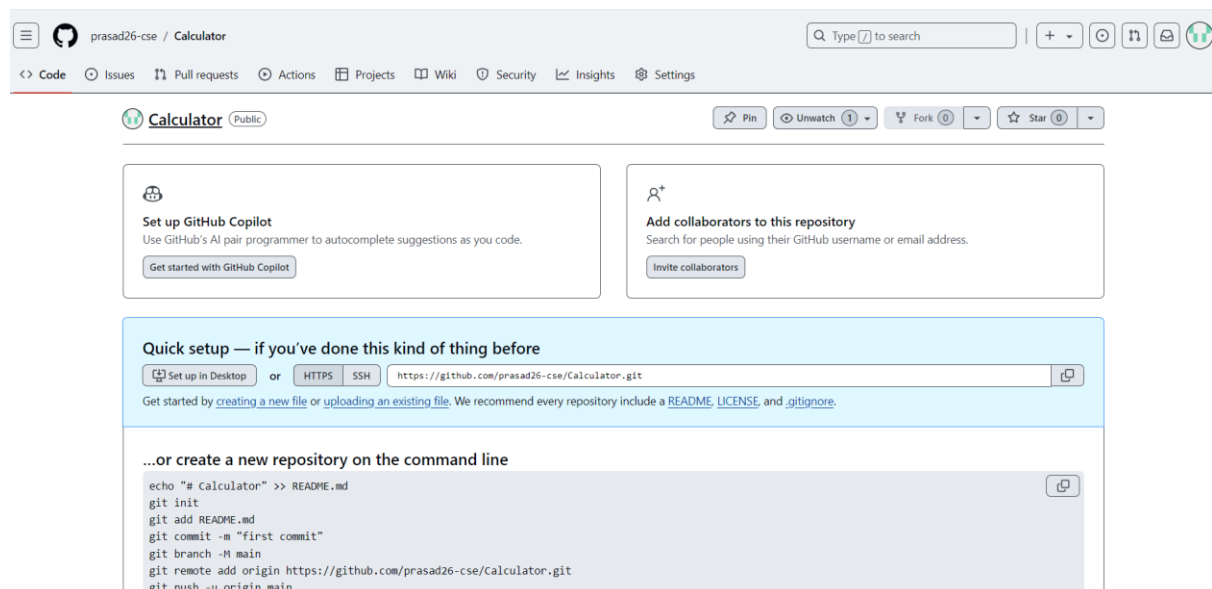
## Create and Switch to a New Branch :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git checkout -b feature
Switched to a new branch 'feature'
```

## Switch Back to the master Branch :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (feature)
$ git checkout master
Switched to branch 'master'
```

## Creating new repository on GitHub :



The screenshot shows the GitHub interface for a new repository named 'Calculator' (Public). The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the repository name, there are buttons for Pin, Unwatch, Fork, and Star. The main content area has two primary sections: 'Set up GitHub Copilot' with a 'Get started with GitHub Copilot' button, and 'Add collaborators to this repository' with an 'Invite collaborators' button. A 'Quick setup' section provides instructions for setting up the repository on a desktop or via HTTPS/SSH, with a text box containing the URL 'https://github.com/prasad26-cse/Calculator.git'. Below this, there is a section for creating a new repository on the command line, with a code block showing the following commands: 

```
echo "# Calculator" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/prasad26-cse/Calculator.git
git push -u origin main
```

## Link Your Local Repository to the Remote :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git remote add origin http://github.com/prasad26-cse/calculator.git
```

## Push Local Commits to Remote :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/calculator (master)
$ git push origin master
warning: redirecting to https://github.com/prasad26-cse/calculator.git/
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 458 bytes | 152.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: This repository moved. Please use the new location:
remote: https://github.com/prasad26-cse/Calculator.git
To http://github.com/prasad26-cse/calculator.git
* [new branch]      master -> master
```

## After Push Remote-Repo become :

The screenshot shows the GitHub interface for a repository named 'Calculator' by user 'prasad26-cse'. The repository is public. The main branch is 'master', which has 1 branch and 0 tags. The commit history shows a single commit by 'prasad26-cse' with the message 'add content to index,styles,script' at 02f4ef6, made 10 minutes ago. The commit details show three files: 'index.html', 'script.js', and 'styles.css', all added to the repository 10 minutes ago. A 'README' file is also visible at the bottom of the commit details.

prasad26-cse / Calculator

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Calculator Public

master 1 Branch 0 Tags

Go to file Add file <> Code

prasad26-cse add content to index,styles,script 02f4ef6 · 10 minutes ago 1 Commit

index.html	add content to index,styles,script	10 minutes ago
script.js	add content to index,styles,script	10 minutes ago
styles.css	add content to index,styles,script	10 minutes ago

README