

## Problem Statement

Three Developers are working in Aperture Technology co. Their company wants a better Source Code Management System because the earlier tool had the tendency to save redundant code. Multiple Developers working simultaneously on the same block of code also caused problems. You are Mike, and your manager has given you the task of moving the company's code base to git and Github.

## Action Items

- Create a local git repository and move the entire code base to it
- Create a new branch for a new feature you want to add to the application
- Merge back the created branch with the master branch
- Create a remote repository
- Push the local repository to company's remote repository

Solution:

1. Creating a local git repo and moving the codebase to it.

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Shamswaroop M S> cd D:\Learning\DevOps_E2\Assignments
PS D:\Learning\DevOps_E2\Assignments> mkdir assignment_1

Directory: D:\Learning\DevOps_E2\Assignments

Mode                LastWriteTime         Length Name
----                -
d-----          26-05-2025   18:04                assignment_1

PS D:\Learning\DevOps_E2\Assignments> cd assignment_1
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git init
Initialized empty Git repository in D:/Learning/DevOps_E2/Assignments/assignment_1/.git/
PS D:\Learning\DevOps_E2\Assignments\assignment_1> |
```

```

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git commit -m "first commit"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'Shamswaroop M S@DESKTOP-97MODQR.(none)')
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git config --global user.email "shamswaroopms@gamil.com"
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git config --global user.name "Sham"
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git status
On branch master

No commits yet

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

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git commit -m "first commit"
[master (root-commit) 6aea4ca] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 codebase.txt.txt
PS D:\Learning\DevOps_E2\Assignments\assignment_1>

```

```

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git status
On branch master
nothing to commit, working tree clean
PS D:\Learning\DevOps_E2\Assignments\assignment_1> |

```

2. Creating a new branch for the new feature.

```

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git branch newFeature
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git checkout newFeature
Switched to branch 'newFeature'

```

```

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git branch
master
* newFeature
PS D:\Learning\DevOps_E2\Assignments\assignment_1> ls

```

Directory: D:\Learning\DevOps\_E2\Assignments\assignment\_1

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	26-05-2025 18:37	33	codebase.txt.txt

```

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git add .
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git commit -m
error: switch `m' requires a value
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git commit -m "new feature commit"
[newFeature 141082b] new feature commit
 1 file changed, 2 insertions(+)
PS D:\Learning\DevOps_E2\Assignments\assignment_1>

```

3. Merge back the created branch with the master.

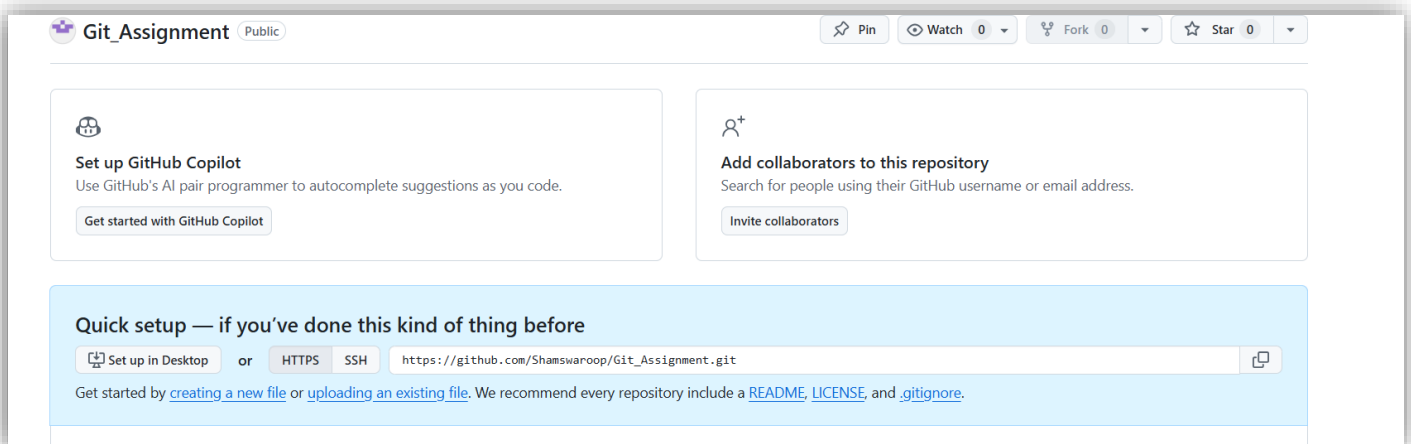
```
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git checkout master
Switched to branch 'master'
PS D:\Learning\DevOps_E2\Assignments\assignment_1> ls

Directory: D:\Learning\DevOps_E2\Assignments\assignment_1


Mode                LastWriteTime         Length Name
----                -
-a-----          26-05-2025         18:39          18 codebase.txt.txt

PS D:\Learning\DevOps_E2\Assignments\assignment_1> git merge newFeature
Updating 6aea4ca..141082b
Fast-forward
 codebase.txt.txt | 2 ++
 1 file changed, 2 insertions(+)
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git status
On branch master
nothing to commit, working tree clean
PS D:\Learning\DevOps_E2\Assignments\assignment_1>
```

4. Creating a remote repo



5. Push the local repo to remote repo

```
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git remote add origin https://github.com/Shamswaroop/Git_Assignment.git
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git remote -v
origin  https://github.com/Shamswaroop/Git_Assignment.git (fetch)
origin  https://github.com/Shamswaroop/Git_Assignment.git (push)
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git status
On branch master
nothing to commit, working tree clean
PS D:\Learning\DevOps_E2\Assignments\assignment_1> git push origin master
info: please complete authentication in your browser...
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 482 bytes | 482.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Shamswaroop/Git_Assignment.git
 * [new branch]      master -> master
PS D:\Learning\DevOps_E2\Assignments\assignment_1>
```



# Git\_Assignment

Public

Pin

Watch 0

master

1 Branch 0 Tags

Go to file

t

Add file

Code



Sham new feature commit

141082b · 11 minutes ago

2 Commits



codebase.txt.txt

new feature commit

11 minutes ago



README

## Commits

master

All users

All time

Commits on May 26, 2025

### new feature commit

Sham committed 11 minutes ago

141082b



<>

### first commit

Sham committed 28 minutes ago

6aea4ca



<>