

Experiment -1.3

Student Name: Km Ayushi

Branch: CSE(DevOps)

Semester: 4th

Subject Name- Git and GitHub

UID:22BDO10055

Section/Group-22BCD-1(B)

Date of Performance:02/02/24

Subject Code:22CSH-293

1. Aim/Overview of the practical: To create and explore Pull request

2. Task to be done: Create a branch in a repository make changes merge the file into the main branch then submit the pull request.

4. Theme/Interests definition(For creative domains):

Pull requests let you tell others about changes you've pushed to a GitHub repository.

Creating a Pull Request

There are 2 main workflows when dealing with pull requests:

1. Pull Request from a forked repository
2. Pull Request from a branch within a repository

5. Steps for experiment/practical:

- a) Firstly, create a directory with the help of mkdir git3, and switch to get git3 by using the cd command.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~  
$ mkdir git3  
  
ayush@LAPTOP-14JQ3IMU MINGW64 ~  
$ cd git3
```

- b) Create and write a message in a file named git.txt. Check its status and initialize it with git init if it's untracked.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3  
$ touch git.txt  
  
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3  
$ vi git.txt
```

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3  
$ git init  
Initialized empty Git repository in C:/Users/ayush/git3/.git/  
  
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (master)  
$ git status  
On branch master  
  
No commits yet  
  
Untracked files:  
  (use "git add <file>..." to include in what  
  will be committed)  
    git.txt  
  
nothing added to commit but untracked files present (use "git add" to track)
```

- c) Now add the file and then commit it.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (master)
$ git add .
warning: in the working copy of 'git.txt', LF
will be replaced by CRLF the next time Git tou
ches it

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (master)
$ git commit -m "Add initial files"
[master (root-commit) 6ae305d] Add initial fil
es
1 file changed, 1 insertion(+)
create mode 100644 git.txt
```

d) Now add the repository from GitHub with the help of its URL.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (master)
$ git remote add origin https://github.com/Ayush
shi121104/git3.git
```

e) Now push the files already created into the main branch.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 230 bytes | 230.0
0 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-re
used 0
To https://github.com/Ayushi121104/git3.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

f) Now create a new branch with the name work and switch on it create a new file Ayushi.txt, write some message on it reinitialize the git repository add the file and then commit it.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (main)
$ git checkout -b work
Switched to a new branch 'work'

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git branch
  main
* work

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ vi ayushi

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ touch ayushi.txt

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ vi ayushi.txt
```

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git add .
warning: in the working copy of 'ayushi', LF will
be replaced by CRLF the next time Git touches it
warning: in the working copy of 'ayushi.txt',
LF will be replaced by CRLF the next time Git
touches it

ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git commit -m "Add 2nd initial files"
[work 24f857b] Add 2nd initial files
2 files changed, 2 insertions(+)
create mode 100644 ayushi
create mode 100644 ayushi.txt
```

g) Now push your changes to your repository on Git Hub.

```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git push -u origin main
Everything up-to-date
branch 'main' set up to track 'origin/main'.

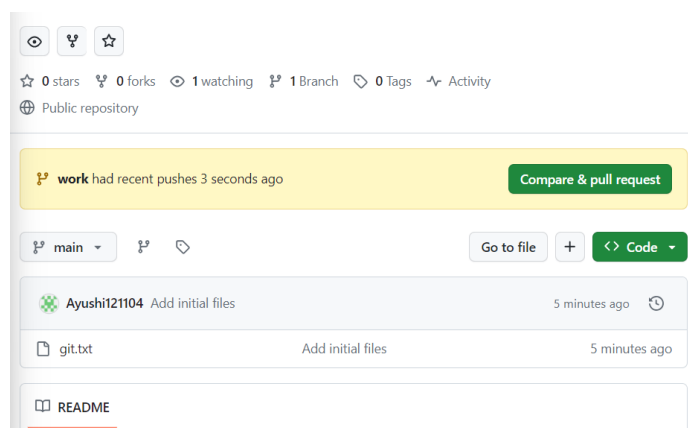
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git push -u origin work
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 351 bytes | 351.0
0 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-re
used 0
remote:
remote: Create a pull request for 'work' on Gi
tHub by visiting:
remote: https://github.com/Ayushi121104/g
it3/pull/new/work
remote:
To https://github.com/Ayushi121104/git3.git
 * [new branch] work -> work
branch 'work' set up to track 'origin/work'.
```

h) Go to your repository on GitHub-

Switch to the branch you just pushed by clicking on the branch drop-down.

Click on the “compare & pull request” button.

Click on the “Create pull request” button to submit your pull request.



Add more commits by pushing to the work branch on Ayushi121104/git3.

Require approval from specific reviewers before merging
[Rulesets](#) ensure specific people approve pull requests before they're merged. Add rule ×

Continuous integration has not been set up
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

✓ This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

i) Merge the “pull request” and click on confirm merge the pull request.

Merge pull request #1 from Ayushi121104/work

Add 2nd initial files

This commit will be authored by 135798277+Ayushi121104@users.noreply.github.com

Confirm merge Cancel

j) Review the changes made.

k) Now we can see the successful pull and merge.

Ayushi121104 / git3

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#)

0 stars 0 forks 1 watching 2 Branches 0 Tags Activity

Public repository

main Go to file + Code

Ayushi121104 Merge pull request #1 from Ayushi121104/work 1 minute ago

ayushi	Add 2nd initial files	3 minutes ago
ayushi.txt	Add 2nd initial files	3 minutes ago
git.txt	Add initial files	8 minutes ago

9. Result/Output/Writing Summary:

In this experiment, we learned how to create a pull request. We made changes to our code, pushed them to a new branch, and then submitted the pull request on GitHub for review. This process allows for the merging of changes from a local machine to a remote repository.

Learning outcomes (What I have learnt):

1. Learn about creating a directory on the local machine.
2. Learn about creating a repository on the local machine.
3. Learn about how to push files from the local machine to a remote repository.
4. Learn how to push on the remote repository.
5. Learn how to pull and merge the pull request.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			