Experiment -1.3

Student Name: Km Ayushi **UID:22BDO10055**
Branch: CSE(DevOps) **Section/Group-22BCD-1(B)**
Semester: 4th **Date of Performance:02/02/24**
Subject Name- Git and GitHub **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/a
yush/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 pr
esent (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/Ayu
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.

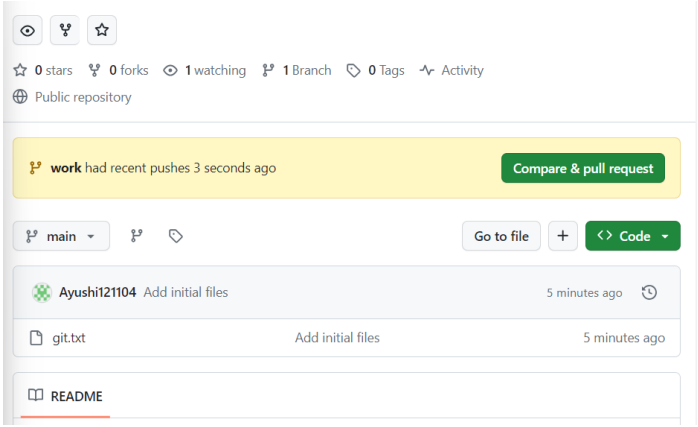
```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (main)
$ git checkout -b work
Switched to a new branch 'work'

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
```

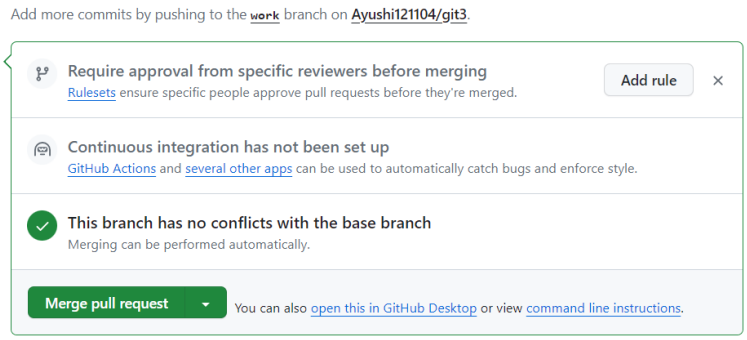
```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git add .
warning: in the working copy of 'ayushi', LF w
ill be replaced by CRLF the next time Git touc
hes it
warning: in the working copy of 'ayushi.txt',
LF will be replaced by CRLF the next time Git
touches it

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.

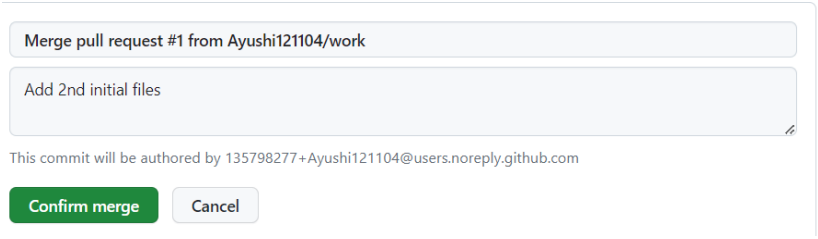
```
ayush@LAPTOP-14JQ3IMU MINGW64 ~/git3 (work)
$ git push -u origin main
Everything up-to-date
branch 'main' set up to track 'origin/main'.

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.



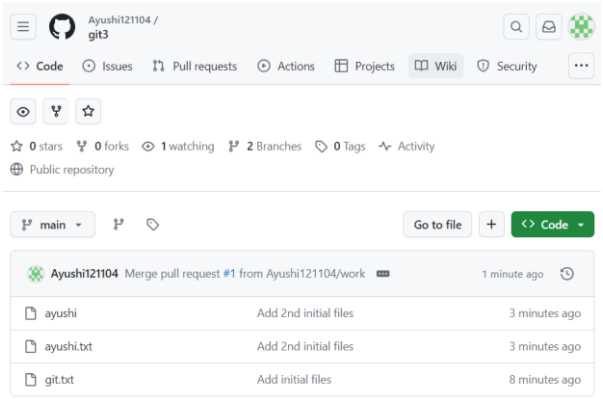


i) Merge the "pull request" and click on confirm merge the pull request.



j) Review the changes made.

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



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.			