Experiment -1.3

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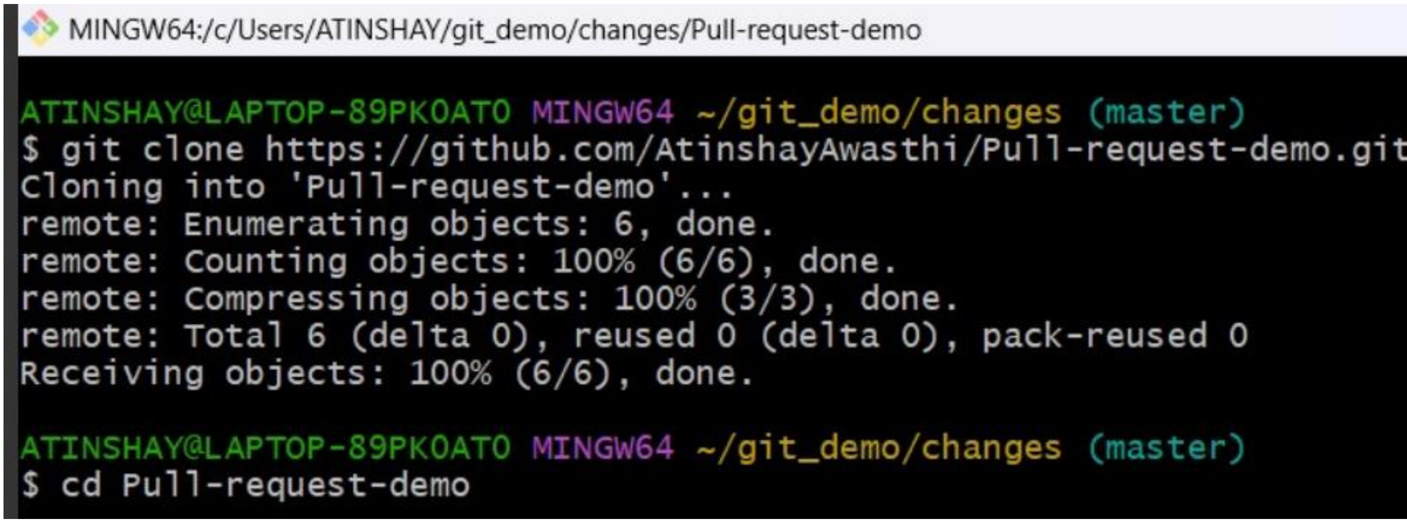
Branch: CSE-DevOps **Section/Group:** 22BCD-1/A
Semester: 4th **Date of Performance:**31/1/24
Subject Name: Git and GitHub **Subject Code:**22CSH-293

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

2. Apparatus/Software Used: Git Bash, GitHub.

3. Steps for experiment/practical:

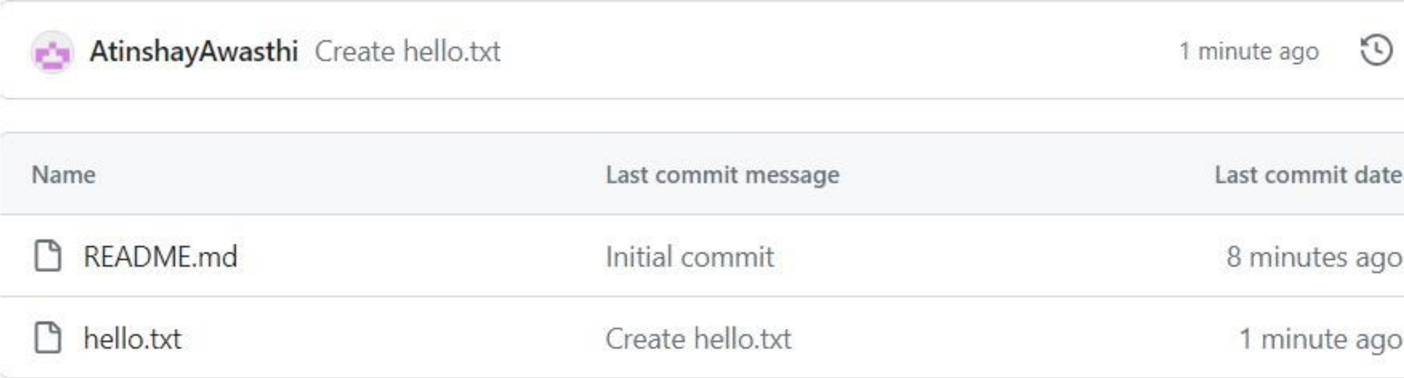
- First open GitHub, create a repository ‘Pull-request-demo’, and clone a repository on git bash.
- Then move to the directory using the cd command.



MINGW64:/c/Users/ATINSHAY/git_demo/changes/Pull-request-demo

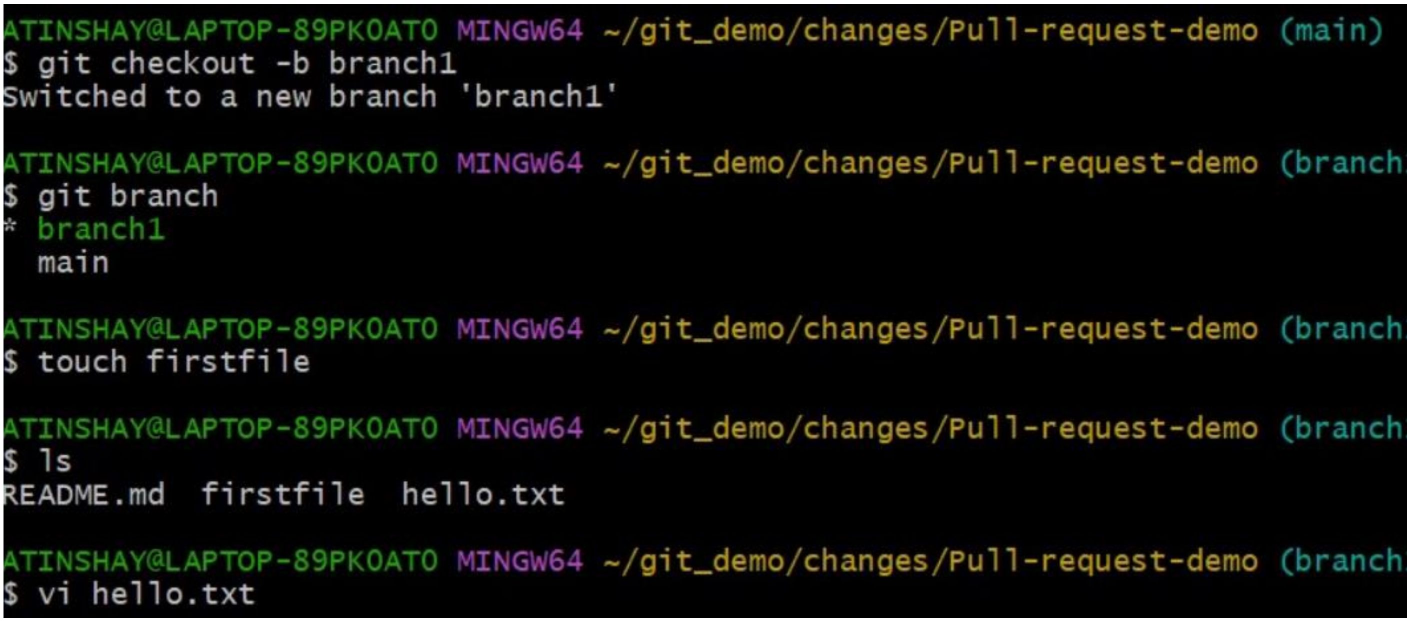
```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes (master)
$ git clone https://github.com/AtinshayAwasthi/Pull-request-demo.git
Cloning into 'Pull-request-demo'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes (master)
$ cd Pull-request-demo
```

- Create a branch using ‘git checkout -b branch1’.
- Now create a file named ‘first file’ and ‘hello.txt’, and some text to the files using vi filename.

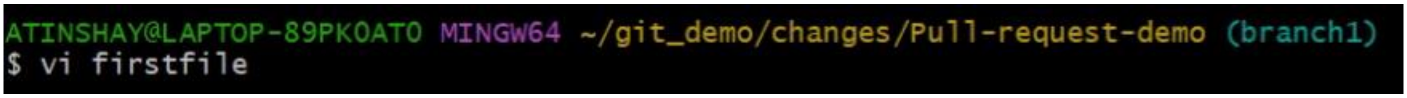


AtinshayAwasthi Create hello.txt 1 minute ago

Name	Last commit message	Last commit date
README.md	Initial commit	8 minutes ago
hello.txt	Create hello.txt	1 minute ago

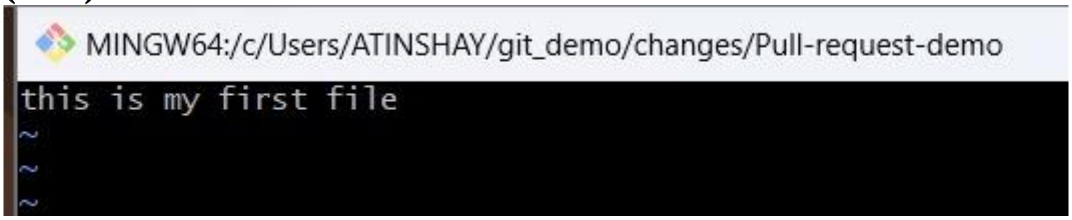


```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (main)
$ git checkout -b branch1
Switched to a new branch 'branch1'

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch
$ git branch
* branch1
  main

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch
$ touch firstfile

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch
$ ls
README.md  firstfile  hello.txt

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch
$ vi hello.txt
```



```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ vi firstfile
```

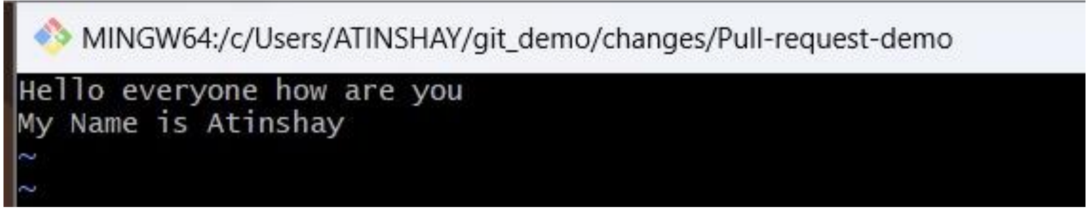
(file1**)**



MINGW64:/c/Users/ATINSHAY/git_demo/changes/Pull-request-demo

```
this is my first file
~
~
~
```

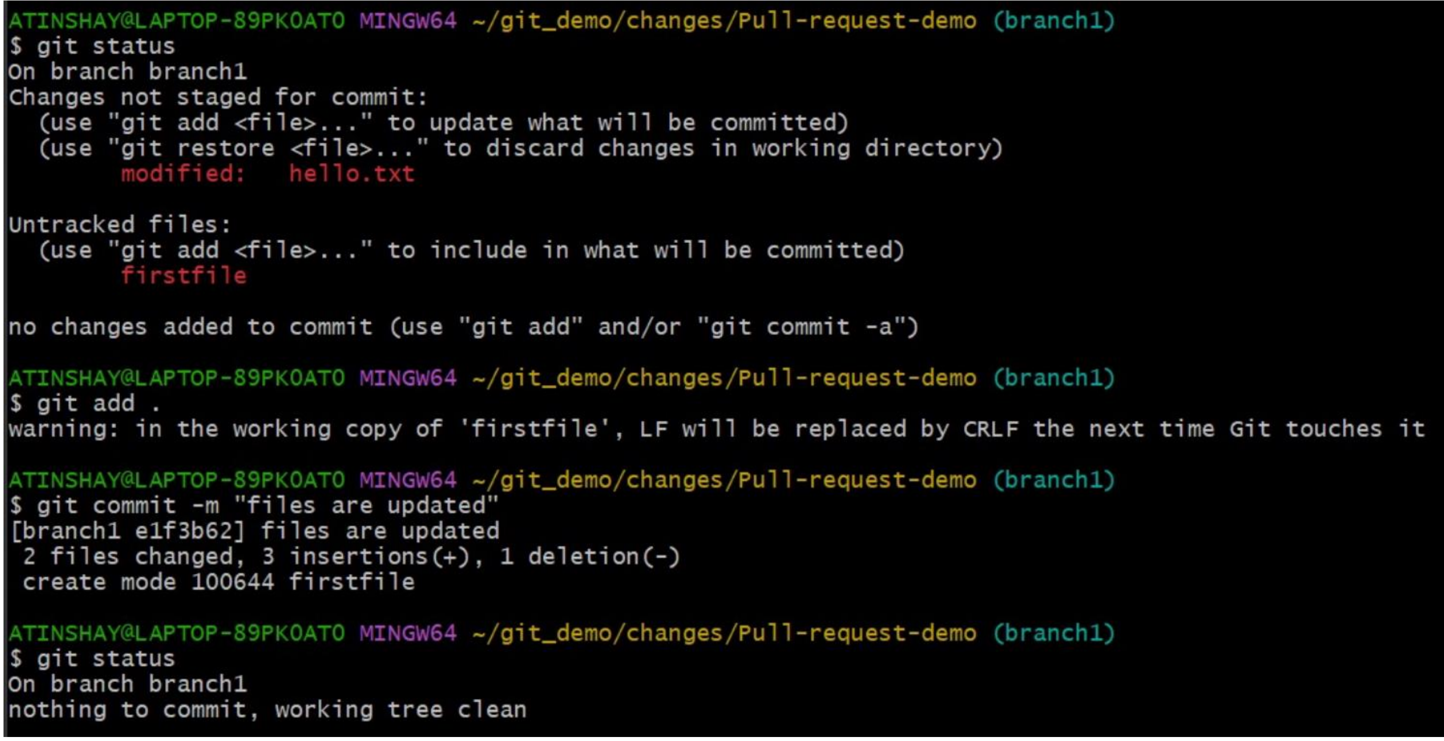
(file2**)**



MINGW64:/c/Users/ATINSHAY/git_demo/changes/Pull-request-demo

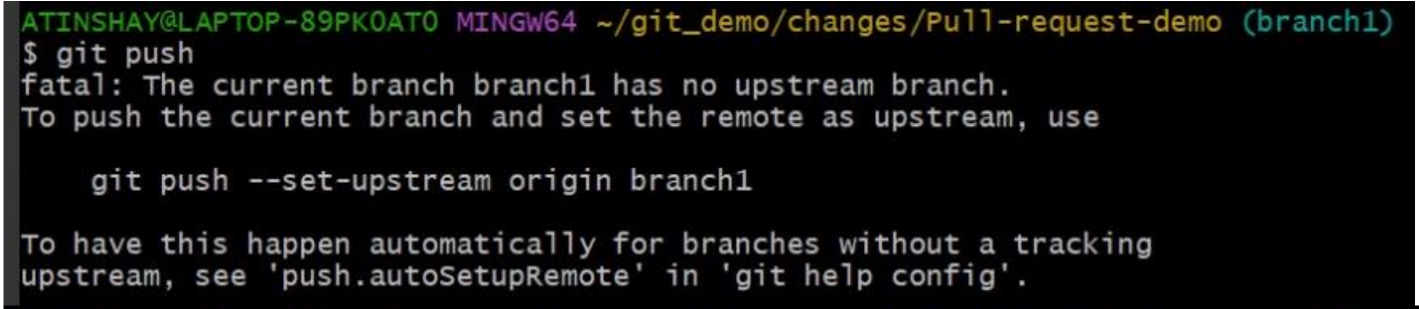
```
Hello everyone how are you
My Name is Atinshay
~
~
```

- Now add the files to the staging area using the git add command and then commit the changes using the command ‘git commit -m “message” ’.

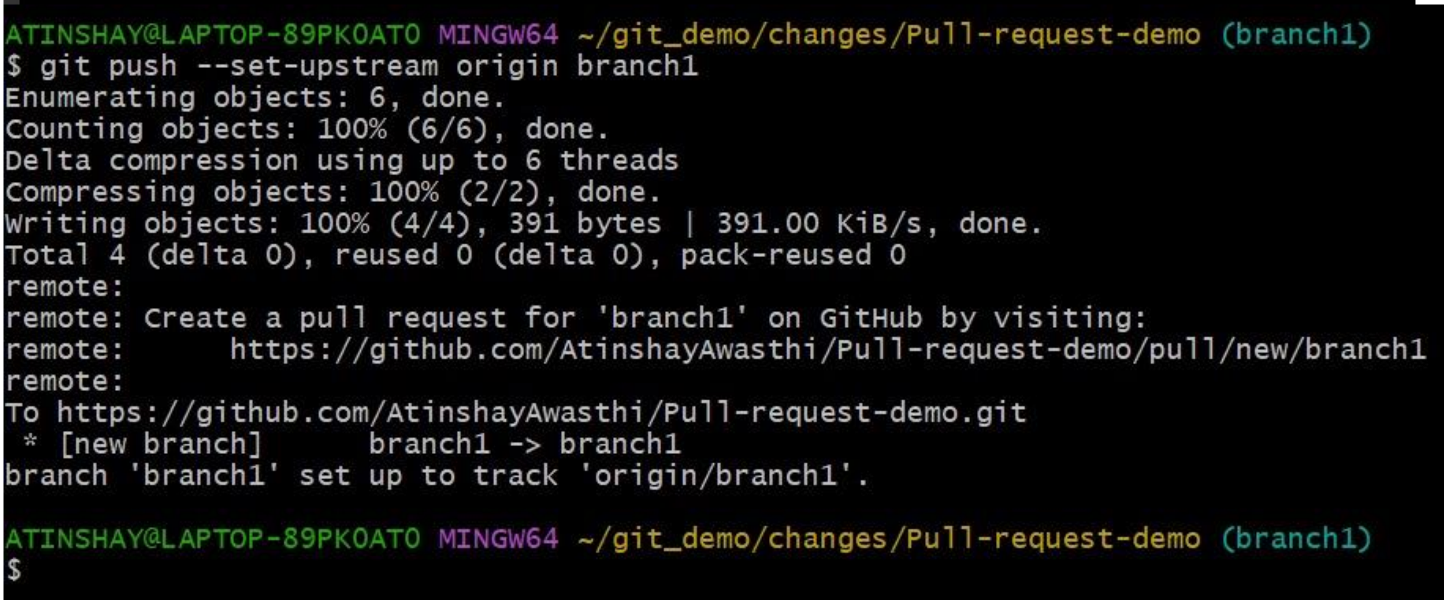


```
ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git status
On branch branch1
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.txt

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

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

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git add .
warning: in the working copy of 'firstfile', LF will be replaced by CRLF the next time Git touches it

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git commit -m "files are updated"
[branch1 e1f3b62] files are updated
 2 files changed, 3 insertions(+), 1 deletion(-)
 create mode 100644 firstfile

ATINSHAY@LAPTOP-89PK0AT0 MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git status
On branch branch1
nothing to commit, working tree clean
```

- Now, push your changes using ‘git push –set-upstream origin branch1’.

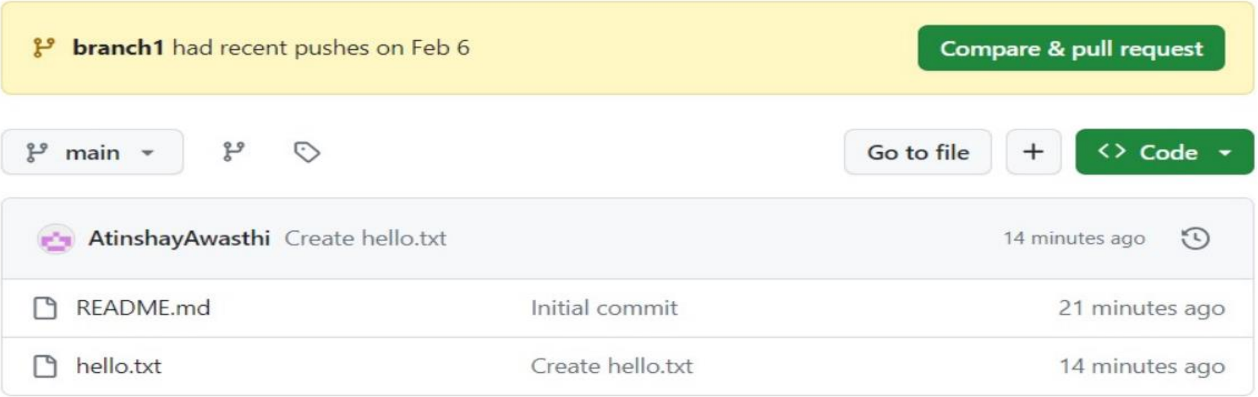


```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git push
fatal: The current branch branch1 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin branch1

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
```



```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$ git push --set-upstream origin branch1
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 6 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 391 bytes | 391.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:      https://github.com/AtinshayAwasthi/Pull-request-demo/pull/new/branch1
remote:
To https://github.com/AtinshayAwasthi/Pull-request-demo.git
 * [new branch]      branch1 -> branch1
branch 'branch1' set up to track 'origin/branch1'.

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/git_demo/changes/Pull-request-demo (branch1)
$
```

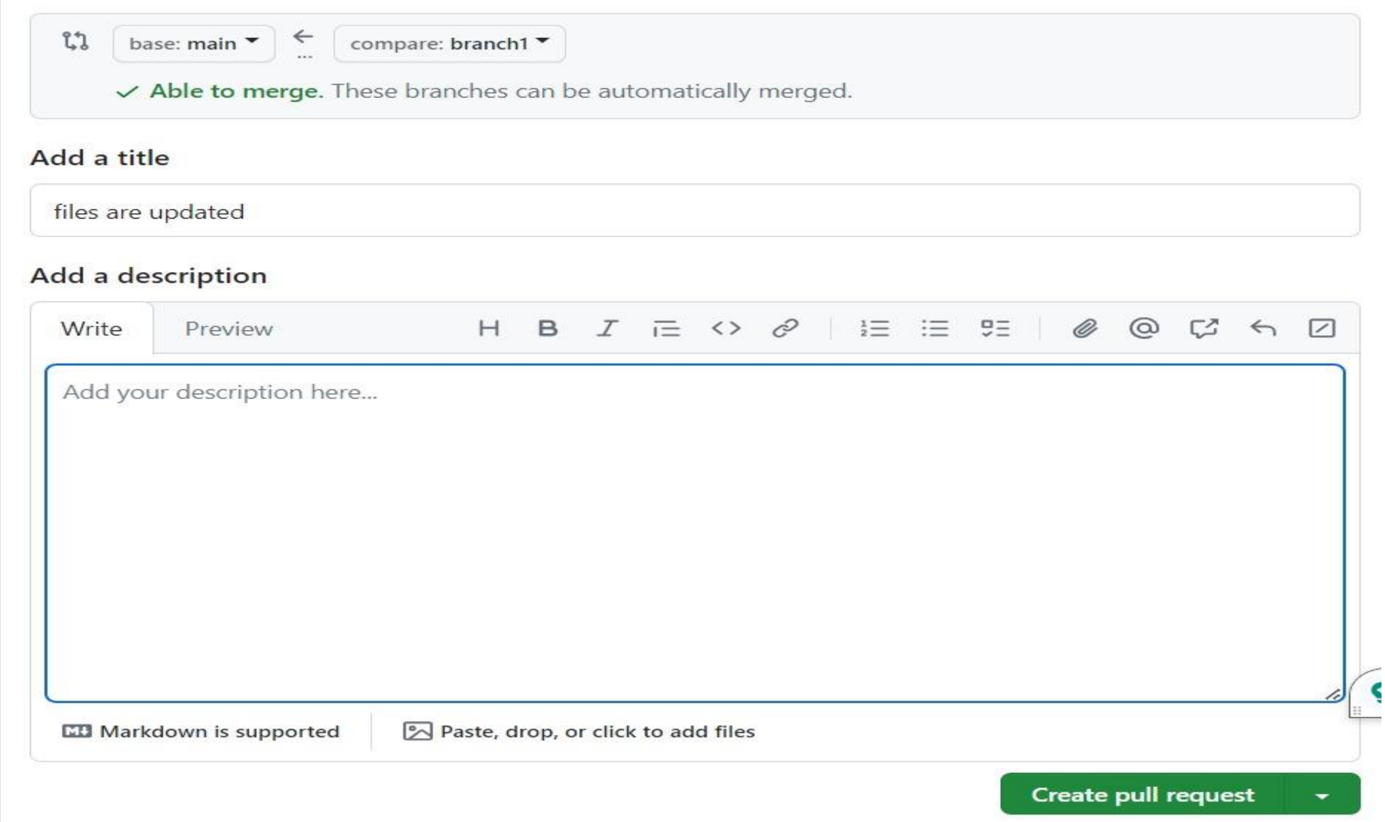
- Now, go to GitHub, and open the repository and their it is showing now compare and pull request. Click on that



AtinshayAwasthi Create hello.txt 14 minutes ago

README.md	Initial commit	21 minutes ago
hello.txt	Create hello.txt	14 minutes ago

- After that , give tittle and add description and then click on create pull request.



✓ Able to merge. These branches can be automatically merged.

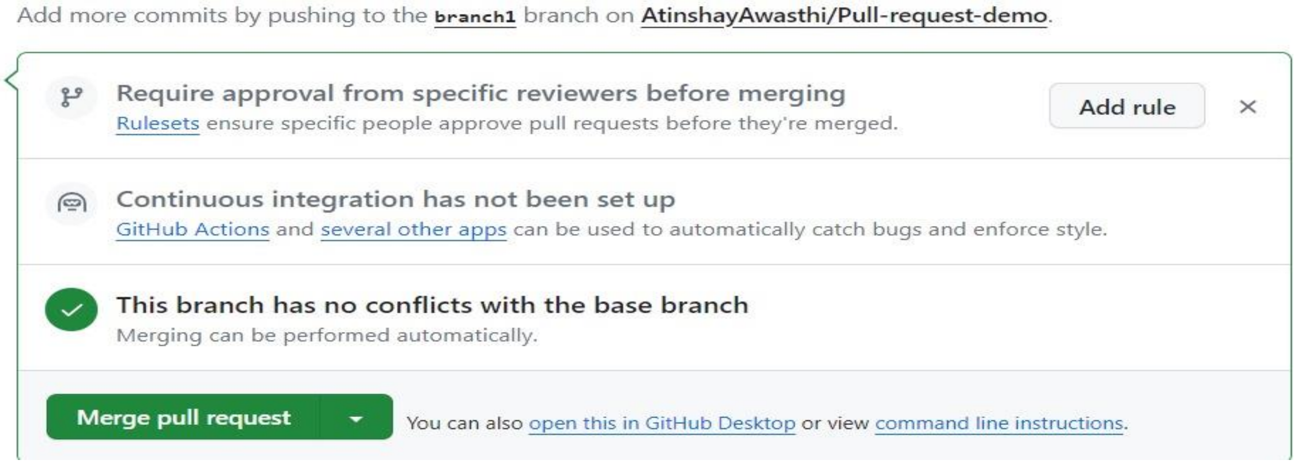
Add a title

files are updated

Add a description

Add your description here...

- Then after this go on merge pull request , and confirm merge.

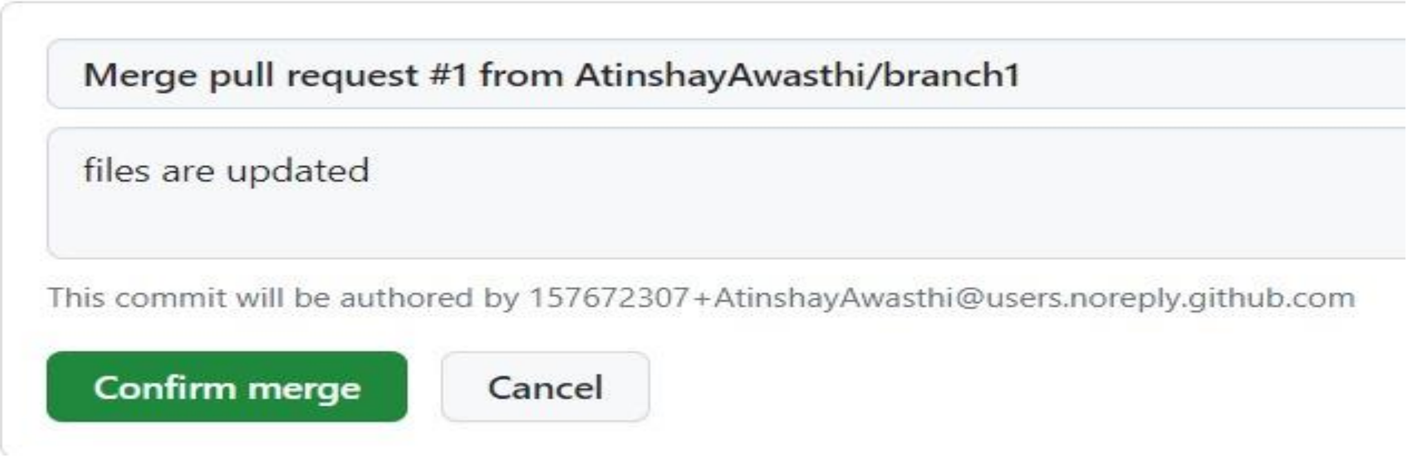

Add more commits by pushing to the `branch1` branch on AtinshayAwasthi/Pull-request-demo.

Require approval from specific reviewers before merging
Rulesets ensure specific people approve pull requests before they're merged.

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.

You can also open this in GitHub Desktop or view command line instructions.

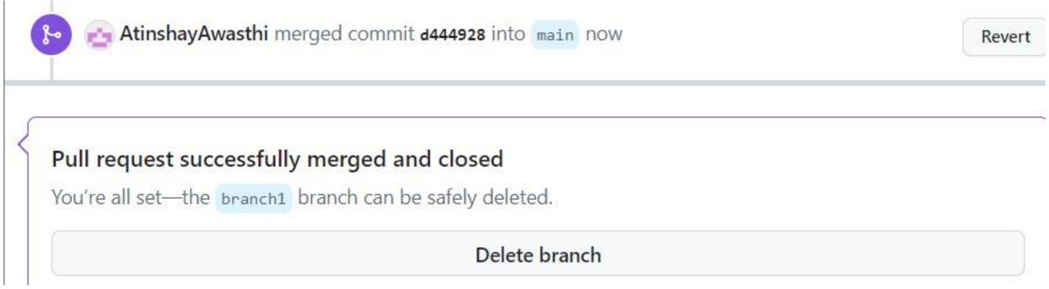


Merge pull request #1 from AtinshayAwasthi/branch1

files are updated

This commit will be authored by 157672307+AtinshayAwasthi@users.noreply.github.com

- Then if you want the delete the branch then you can click on delete branch.

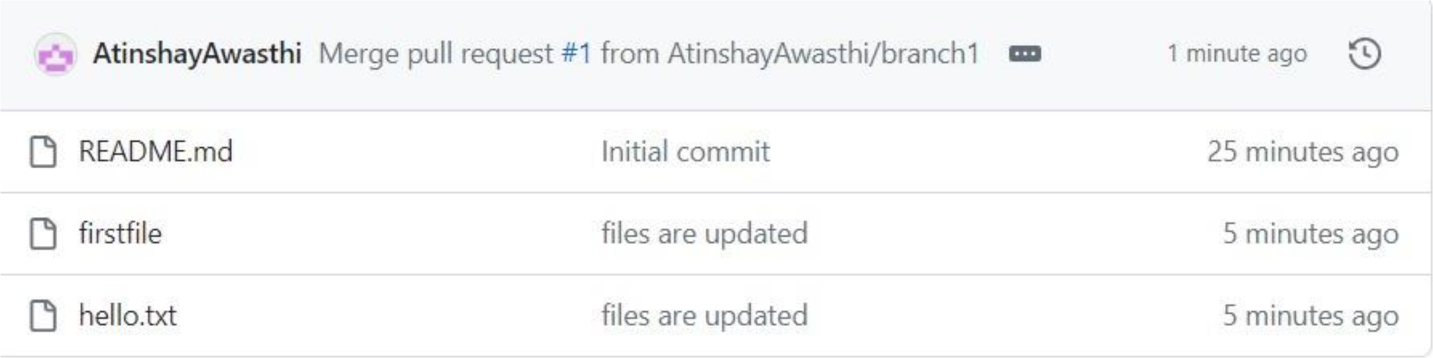


AtinshayAwasthi merged commit d444928 into main now

Pull request successfully merged and closed

You're all set—the branch1 branch can be safely deleted.

- Now back to the repository ,so you can see that the files are updated.



AtinshayAwasthi Merge pull request #1 from AtinshayAwasthi/branch1 ... 1 minute ago

README.md	Initial commit	25 minutes ago
firstfile	files are updated	5 minutes ago
hello.txt	files are updated	5 minutes ago

4. Result/Output/Writing Summary:

In this experiment, we have successfully created and explored the pull requests. In a branch we have created changes and merge the changes with the main branch.

Learning outcomes (What I have learnt):

1. I have learnt about branches and how to create them.

2. I have learnt about how to push and pull the changes.

3. I have learnt about how to merge the branches.

4. I have learnt about some new commands.

5. I have learnt how to resolve merge conflicts.

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.			