

## Experiment -1.3

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**Branch:** CSE (Devops)  
**Semester:** 4th  
**Subject Name:** Git and Git Hub

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**Section/Group:** 22BCD-1\A  
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### 1. Aim/Overview of the practical:

To create and explore pull request in git bash.

### 2. Task to be done:

Create branch of a repository and make changes and merge the file into main branch.

### 3. Steps for experiment/practical:

1. Open Git Bash in a local folder.
2. Initialize Git.
3. Clone your repository.
4. Get into the repository.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3 (main)
$ git init
Initialized empty Git repository in C:/Users/ASUS TUF/Desktop/gitExp3/.git/

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3 (main)
$ git clone https://github.com/Sushantjha1236/Localrepo.git
Cloning into 'Localrepo'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Receiving objects: 100% (5/5), done.

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3 (main)
$ cd Localrepo
```

5. Create a branch.
6. Make changes in the branch.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ vi file.txt

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ git checkout -b branch1
Switched to a new branch 'branch1'

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (branch1)
$ ls
README.md  file.txt  index.html  style.css
```

7. Add the branch to staging area.
8. Commit the changes made on branch.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (branch1)
$ vi file.txt

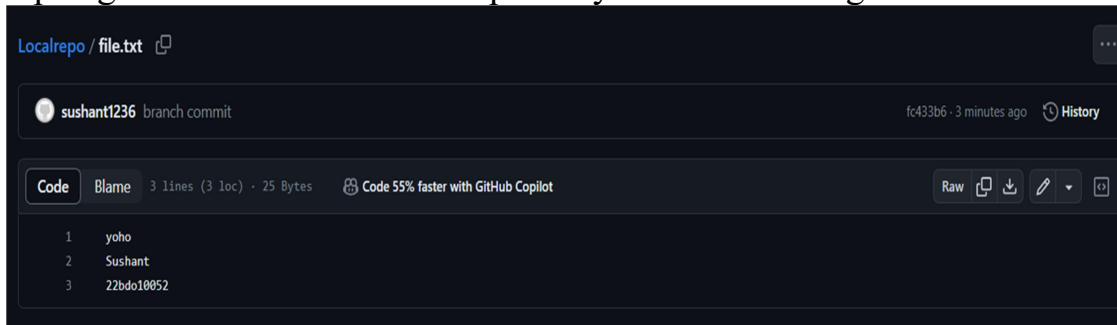
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (branch1)
$ git add .
warning: in the working copy of 'file.txt', LF will be replaced
time Git touches it

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (branch1)
$ git commit -m "branch commit"
[branch1 fc433b6] branch commit
1 file changed, 3 insertions(+)
create mode 100644 file.txt
```

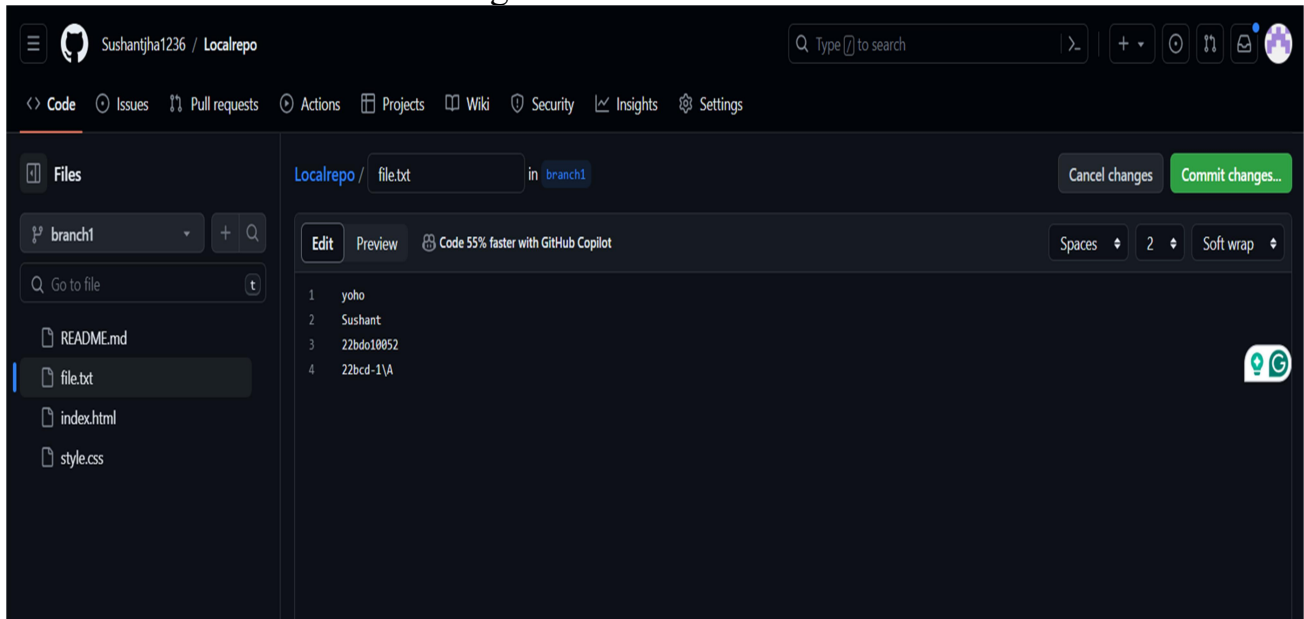
9. Push the changes to the git hub.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (branch1)
$ git push -u origin branch1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
```

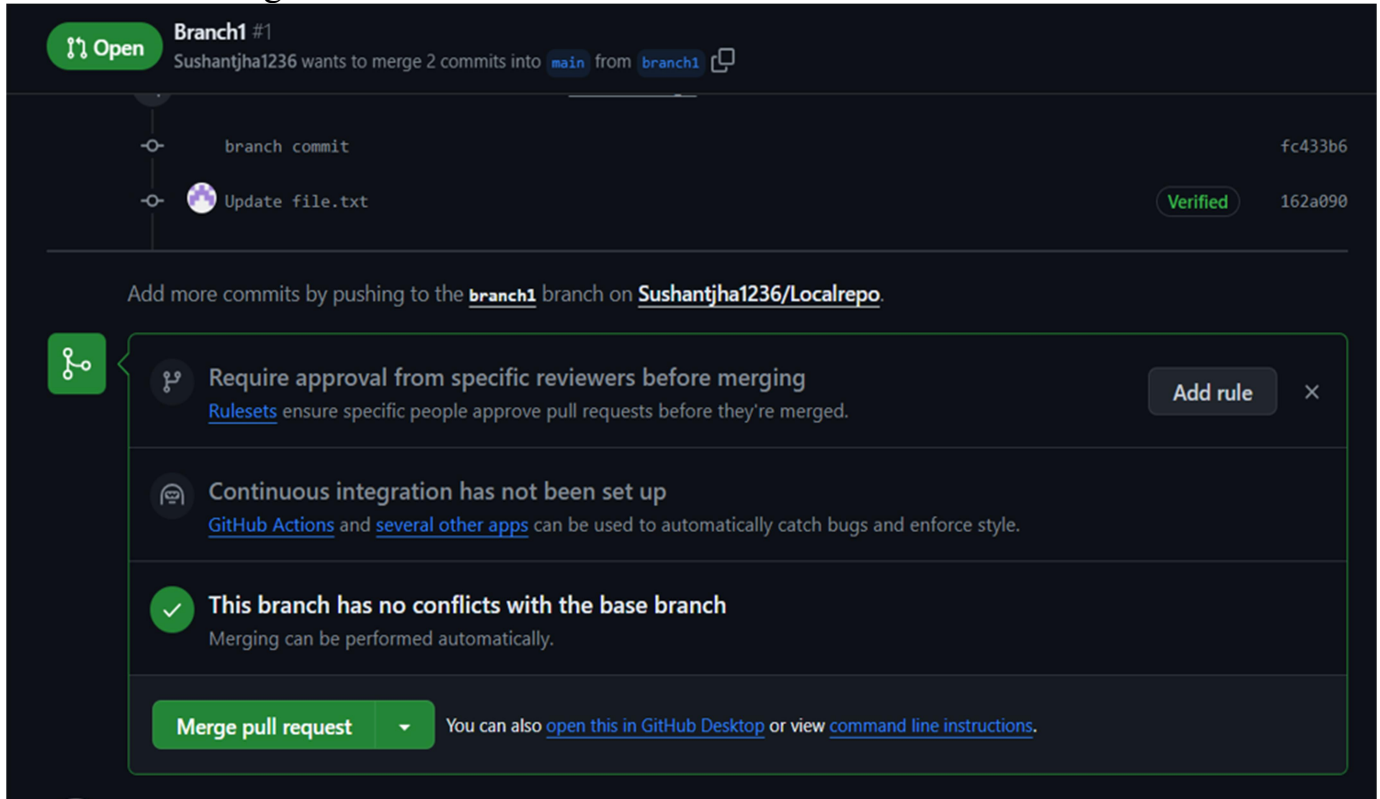
10. Open git hub and move to the repository where the changes are made.



11. Go to the branch and make changes.



## 12. Commit the changes.



Branch1 #1  
Sushantjha1236 wants to merge 2 commits into `main` from `branch1`

branch commit fc433b6  
Update file.txt Verified 162a090

Add more commits by pushing to the `branch1` branch on [Sushantjha1236/Localrepo](#).

- 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](#).

## 13. Goto main branch.

## 14. Get back to your local system.

## 15. Pull the repository to it.

```
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ git pull
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 1.78 KiB | 260.00 KiB/s, done.
From https://github.com/Sushantjha1236/Localrepo
   011e972..afaea4a  main       -> origin/main
Updating 011e972..afaea4a
Fast-forward
 file.txt | 4 ++++
 1 file changed, 4 insertions(+)
 create mode 100644 file.txt

ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ ls
README.md  file.txt  index.html  style.css
```

16. Review the changes made.

```
yoho
Sushant
22bdo10052
22bcd-1\A
~
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ vi file.txt
ASUS TUF@sushant MINGW64 ~/Desktop/gitExp3/Localrepo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

17. Check git status.

### Learning outcomes (What I have learnt):

1. Understanding Git Workflow
2. Understanding Collaborative Workflow
3. Version Control Proficiency.
4. Committing changes.
5. Working with staging area.

**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.			