

## Experiment -2.2

Student Name: Sneha Mehrotra

Branch: CSE (Devops)

Semester: 4th

Subject Name: Git and Git Hub

UID: 22BDO10048

Section/Group: 22BCD-1\A

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### Aim/Overview of the practical:

To create remote repositories and merge their contents in a single local repository followed by updating contents and pushing changes back to remote repository.

**Software Used:** Git Bash, Git-Hub.

### Steps for experiment/practical:

- 1 Create a new local repository and initialize it using git init.
- 2 Add a file file1.java and edit it using the vi command.
- 3 Save the changes made to fl.java using git add and git commit.



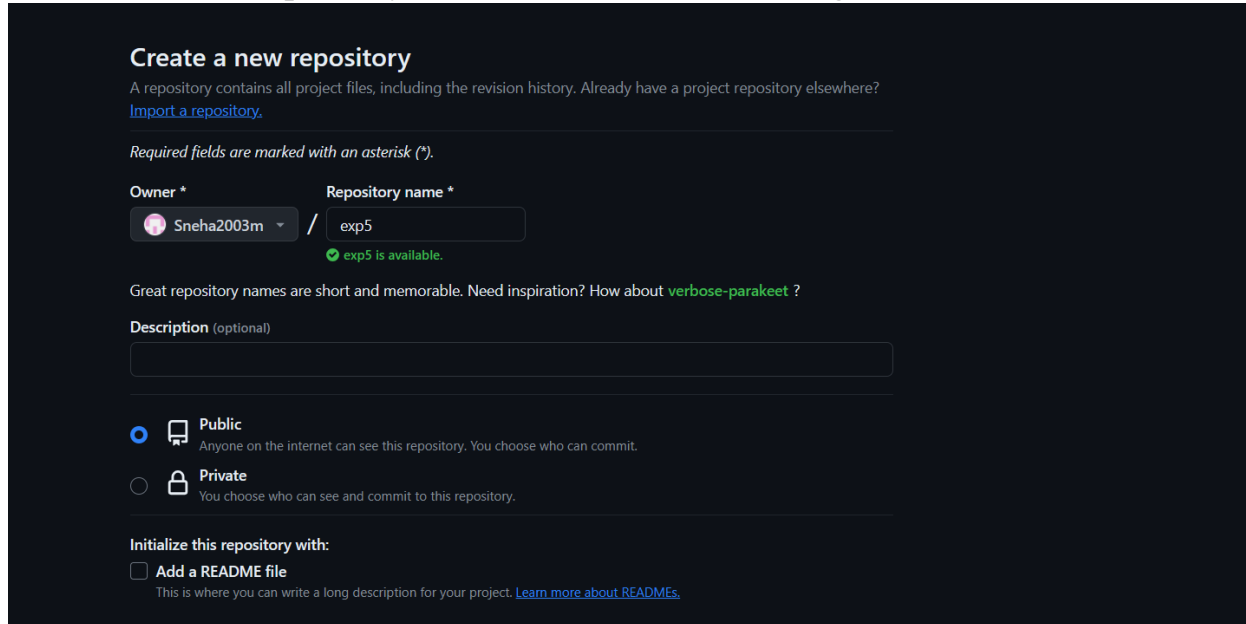
```
MINGW64/c:/Users/sneha/OneDrive/Desktop/exp5
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git init
Initialized empty Git repository in C:/Users/sneha/OneDrive/Desktop/exp5/.git/

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ vi fl.txt

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git add .

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git commit -m "new commit"
[master (root-commit) 5d76f0a] new commit
1 file changed, 1 insertion(+)
create mode 100644 fl.txt
```

## 4 Create a remote repository on GitHub without including README.md.



## 5 . Configure the GitHub repository as the new remote repository using git remote add origin <https link to the repository>.

## 6 Push the changes (the fl.java file) to the remote repository using git push -u origin main.

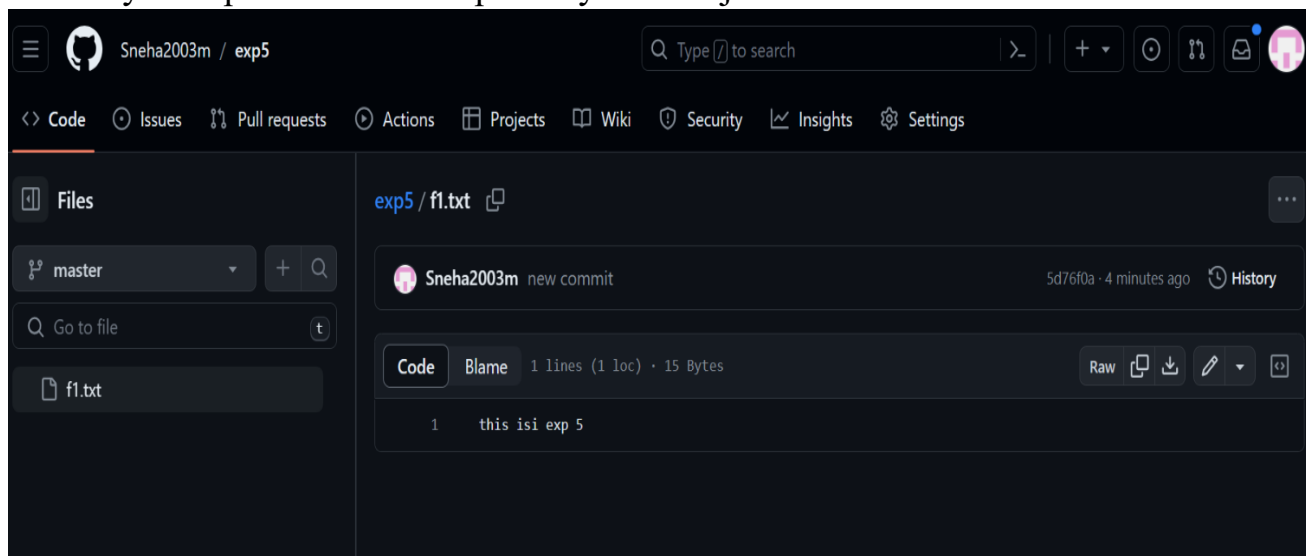
```
MINGW64~/Users/sneha/OneDrive/Desktop/exp5
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/
OneDrive/Desktop/exp5 (master)
$ git remote add origin https://github.com/Sneha2003m/exp5.git

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/Sneha2003m/exp5.git'

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/Sneha2003m/exp5.git'

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 221 bytes | 221.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pushed 3 (delta 0)
```

7 Verify the updated remote repository with f1.java.



- 8 Create another repository on GitHub, this time with README.md.
- 9 Link this remote repository to our local repository using git remote add or2<url of the second repo>.
- 10 Check existing remote linked repositories using git remote -v command.

```
MINGW64/c/Users/sneha/OneDrive/Desktop/exp5
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git remote add or2 https://github.com/Sneha2003m/exp05.git

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (master)
$ git remote -v
or2      https://github.com/Sneha2003m/exp05.git (fetch)
or2      https://github.com/Sneha2003m/exp05.git (push)
origin   https://github.com/Sneha2003m/exp5.git (fetch)
origin   https://github.com/Sneha2003m/exp5.git (push)
```

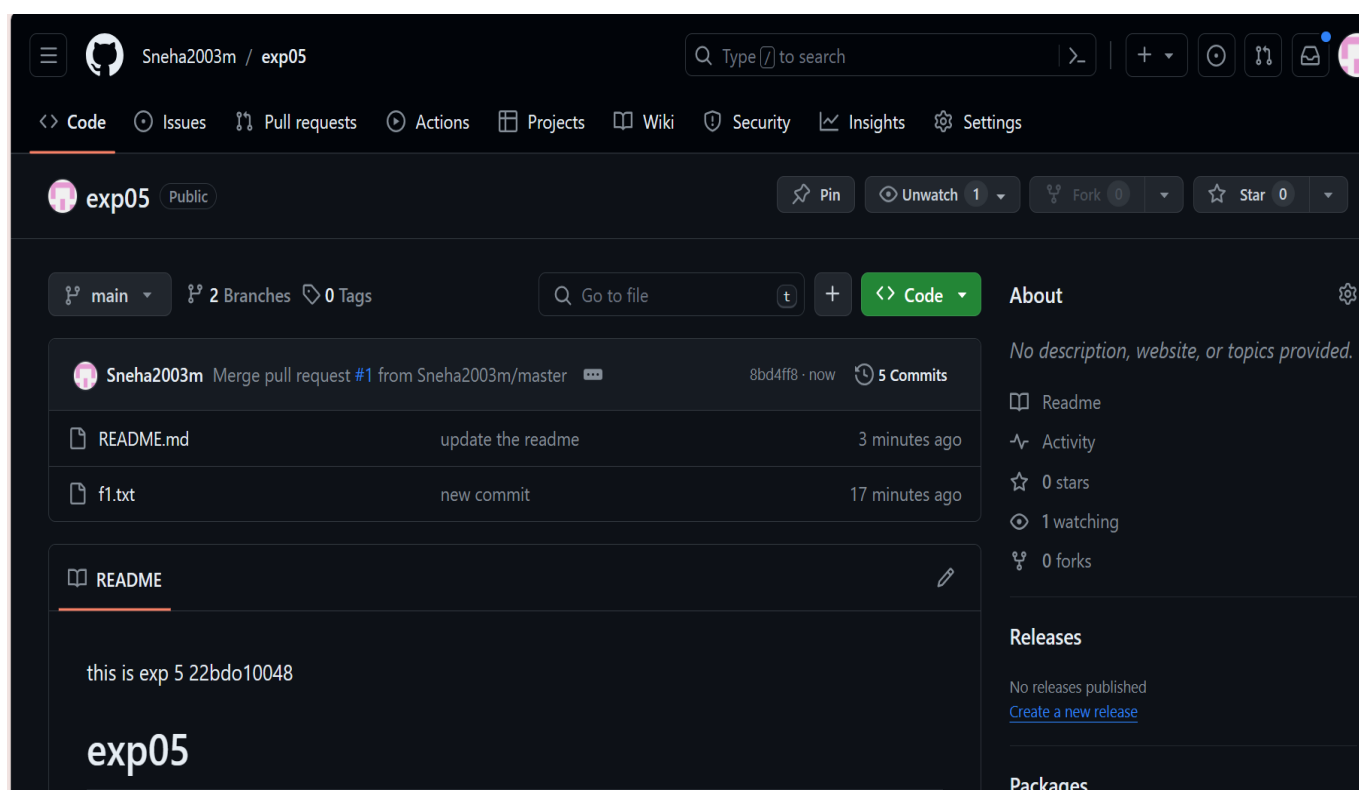
- 11 Attempt to update the local repository with the remote repository using git pull or2 main, which returns an error.
- 12 Merge the contents of both remote repositories with different commit histories into a single local repository using git pull or2 main --allow-unrelated-histories.
- 13 Change the contents of README.md file using vi command.
- 14 Push the changes back to the remote repository (new5.2) using git push dope main after adding the file to the staging area and committing the changes.

```
MINGW64:/c:/Users/sneha/OneDrive/Desktop/exp5
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Deskt
5 (master)
$ git add .

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Deskt
er)
$ git commit -m "update the readme"
[master 08b9c12] update the readme
1 file changed, 3 insertions(+), 1 deletion(-)

sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Deskt
er)
$ git push or2 main
```

```
sneha@LAPTOP-2GFSQH9Q MINGW64 ~/OneDrive/Desktop/exp5 (mas
ter)
$ git push or2 master
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 793 bytes | 396.00 KiB/s, don
e.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by vi
siting:
remote:      https://github.com/Sneha2003m/exp05/pull/new/
master
remote:
To https://github.com/Sneha2003m/exp05.git
 * [new branch]      master -> master
```



Learning outcomes (What I have learnt):

- Understanding Git Workflow
- Learnt about commit, merge and add commands.
- Version Control Proficiency.
- Committing changes.
- Learnt about how to pull request and push in git bash.

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.			



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