

Experiment -2.2

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Branch: AIT-CSE(DevOps)

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Subject Name: Git and Hub

UID: 22BDO10039

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1. **Aim/Overview of the practical:** To merge pull requests and update local repositories.

2. **Software Used:** Git Bash, GitHub.

3. **Steps for experiment/practical:**

1. Create or clone a repository on your local machine after opening GIT BASH.
2. Move to the directory using the **cd** command.

```
himanshi@Himanshis-MacBook-Pro ~ % git --version
git version 2.15.0
himanshi@Himanshis-MacBook-Pro ~ % git clone https://github.com/Hitashikankran/Practicals.git
Cloning into 'Practicals'...
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
Unpacking objects: 100% (6/6), done.
himanshi@Himanshis-MacBook-Pro ~ % cd practicals
himanshi@Himanshis-MacBook-Pro practicals % vi file3.txt
```

3. Create or open a file in the master or main branch , eg , **file3.txt** and add some text to the file.
4. Add the file to the staging area using **git add** and then commit the changes using the **git commit** command **OR** you can use the command **git commit -a -m "<commit_msg>"** or **git commit -am "<commit_msg>"**.

```
himanshi@Himanshis-MacBook-Pro ~ % cd practicals
himanshi@Himanshis-MacBook-Pro practicals % vi file3.txt
himanshi@Himanshis-MacBook-Pro practicals % cat file3.txt
git practical
himanshi@Himanshis-MacBook-Pro practicals % git commit -a -m "added text to file3.txt"
On branch main
```

5. Create a new branch and checkout to it using the **git checkout -b** command , eg , **Exp5**.
6. Open the **file3.txt** on the **vi** editor and make some changes in it.

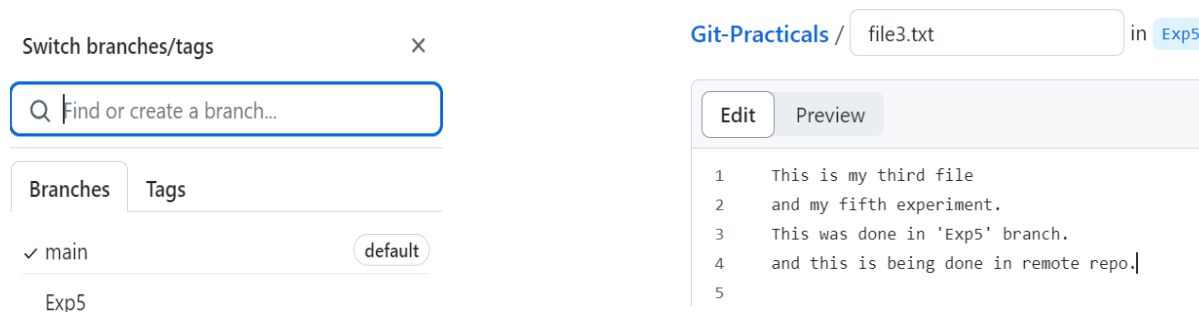
```
nothing added to commit but untracked files present
himanshi@Himanshis-MacBook-Pro practicals % git checkout -b exp5
Switched to a new branch 'exp5'
himanshi@Himanshis-MacBook-Pro practicals % vi file3.txt
himanshi@Himanshis-MacBook-Pro practicals % cat file3.txt
git practical
Done in exp 5 branch
himanshi@Himanshis-MacBook-Pro practicals % git commit -am "performed in exp5"
On branch exp5
```

7. Merge the changes made in the **Exp5** branch with the **main** branch and resolve the conflicts manually if necessary using the **git merge** command.

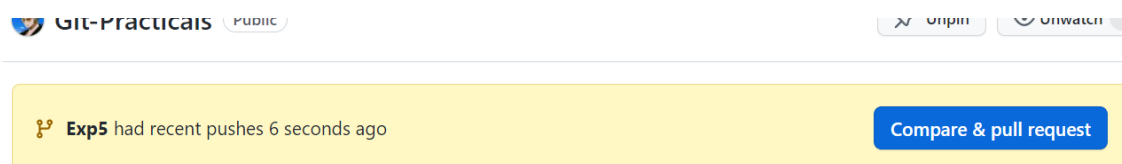
```
$ git diff main Exp5
diff --git a/file3.txt b/file3.txt
index c26a63a..1b560e8 100644
--- a/file3.txt
+++ b/file3.txt
@@ -1,2 +1,3 @@
This is my third file
and my fifth experiment.
+This was done in 'Exp5' branch.
```

```
himanshi@Himanshis-MacBook-Pro practicals % git diff main exp5
himanshi@Himanshis-MacBook-Pro practicals % git diff
himanshi@Himanshis-MacBook-Pro practicals % git merge exp5
himanshi@Himanshis-MacBook-Pro practicals % cat file3.txt
git practical
Done in exp 5 branch
```

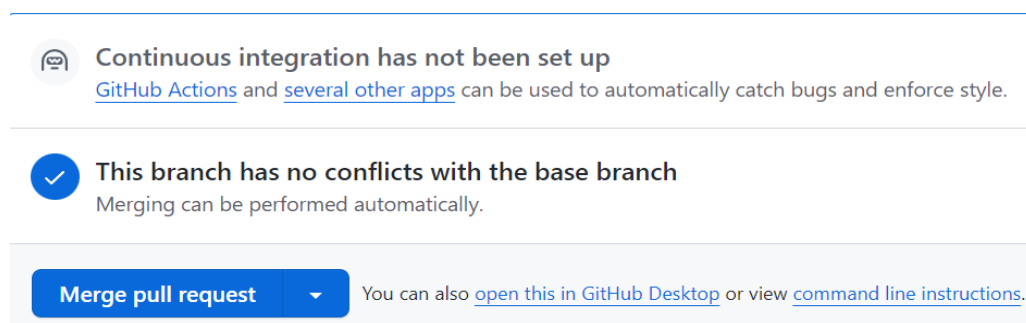
8. Now, Go to github, open the repository and move to the **Exp5** branch and make some changes in a file.



9. Commit the changes and move to the **main** branch. Click on the **Compare & Pull request**.



10. Create the **pull request**, resolve the merge conflicts (if any) and then **merge pull request**.



11. After the merging, you may choose to delete your branch, i.e., **Exp5**

Code
Blame
4 lines (4 loc) · 118 Bytes

```

1   This is my third file
2   and my fifth experiment.
3   This was done in 'Exp5' branch.
4   and this is being done in remote repo.

```

4. Result/Output/Writing Summary:

In this experiment, we have merged a file in a branch to the master or main branch on both the local and remote repositories/environment.

Learning outcomes (What I have learnt):

1. Learnt how to create a branch.
2. Learnt how to clone a remote repo to our local system.
3. Learnt how to create a pull request and handle their merging.
4. Learnt to merge two branches.
5. 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.			