



Experiment -2.2

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Branch: CSE (Devops) Section/Group: 22BCD-1\A

Semester: 4th Date of Performance: 21/02/24

Subject Name: Git and Git Hub Subject Code: 22CSH-293

1. <u>Aim/Overview of the practical:</u> To Merge Pull Request and Update local repository on GitHub.

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

3. Steps for experiment/practical:

- 1. Create a new local repository and initialize it using git init.
- 2. Add a file file1.txt and edit it using the vi command.
- 3. After that add it to the staging area and then commit it.

```
MINGW54;/c/Users/ATINSHAY/experiment
 TINSHAYBLAPTOP-89PKOATO MINGW64 - (master)
 mkdir experiment
 TINSHAYALAPTOP-89PKOATO MINGW64 - (master)
 cd experiment
 TINSHAYBLAPTOP-89PKOATO MINGW64 -/experiment (master)
 nitialized empty Git repository in C:/Users/ATINSHAY/experiment/.git/
 TINSHAY@LAPTOP-89PKOATO MINGW64 -/experiment (master)
 touch file1.txt
 TINSHAYALAPTOP-89PKOATO MINGW64 -/experiment (master)
 vi file1.txt
 TINSHAYOLAPTOP-89PKOATO MINGW64 ~/experiment (master)
cat filel.txt
ello world this is Atinshay
 FINSHAY@LAPTOF-89PKOATO MINGW64 ~/experiment (master)
 git add file1.txt
 arning: in the working copy of 'filel.txt', LF will be replaced by CRL
 TINSHAYWLAPTOP-89PKOATO MINGW64 -/experiment (master) git commit -m "text is added to the file"
master (root-commit) 4a798e4] text is added to the file
1 file changed, 1 insertion(+)
create mode 100644 file1.txt
 FINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (master)
 git status
  branch master
 othing to commit, working tree clean
```







- 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 <a href="https://example.com/https
- 6. Push the changes to the remote repository using git push -u origin main.

```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (master)

$ git remote add origin https://github.com/AtinshayAwasthi/exp5.git

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (master)

$ git remote -v
origin https://github.com/AtinshayAwasthi/exp5.git (fetch)
origin https://github.com/AtinshayAwasthi/exp5.git (push)

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (master)

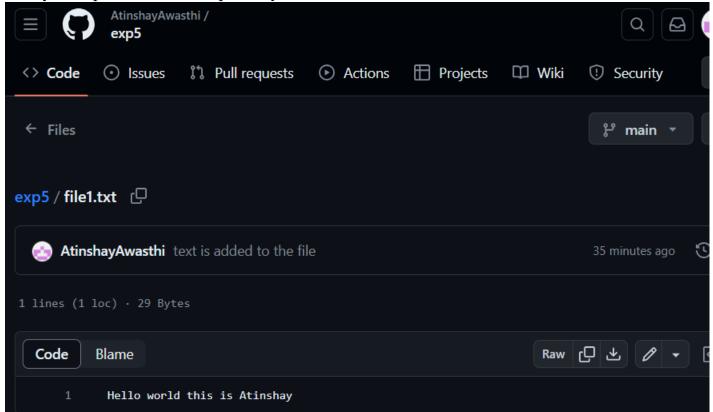
$ git branch -m main

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (main)

$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 246 bytes | 246.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AtinshayAwasthi/exp5.git

* [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```

7. Verify the updated remote repository.









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

```
ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (main)
$ git remote add or https://github.com/AtinshayAwasthi/exp5.2.git

ATINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (main)
$ git remote -v
or https://github.com/AtinshayAwasthi/exp5.2.git (fetch)
or https://github.com/AtinshayAwasthi/exp5.2.git (push)
origin https://github.com/AtinshayAwasthi/exp5.git (fetch)
origin https://github.com/AtinshayAwasthi/exp5.git (push)
```

- 11. Attempt to update the local repository with the remote repository using git pull or 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 or main --allow-unrelated-histories.

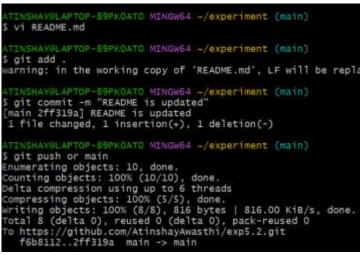
```
TINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (main)
 git pull or main
* branch
                  main
                            -> FETCH_HEAD
* [new branch]
                  main
                            -> or/main
atal: refusing to merge unrelated histories
 TINSHAY@LAPTOP-89PKOATO MINGW64 ~/experiment (main)
 git pull or main --allow-unrelated-histories
 rom https://github.com/AtinshayAwasthi/exp5.2
                  main
                            -> FETCH_HEAD
* branch
Merge made by the 'ort' strategy.
README.md | 1 +
1 file changed, 1 insertion(+)
create mode 100644 README.md
```

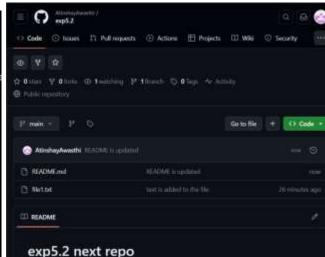
- 13. Change the contents of the README.md file using vi command.
- 14. Push the changes back to the remote repository (exp 5.2) using git push dope main after adding the file to the staging area and committing the changes.











Learning outcomes (What I have learnt):

- 1. Understanding Git Workflow
- 2. Learnt about commit, merge and add commands.
- 3. Version Control Proficiency.
- 4. Committing changes.
- 5. 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
51. 110.	1 drameters	Warks Obtained	Waxiiiuiii Warks
1.			
2.			
3.			

