Experiment -2.2

### To merge pull request and merge changes on GitHub

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| **Branch:** | CSE(DEVOPS) | **Section/Group:** 22BCD-1/B |
| **Semester:** | 4th | **Date of Performance:** 21-02-2024 |
| **Subject Name:** | Git and GitHub | **Subject Code:** 22CSH-293 |

1. **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.
2. **Task to be done:** Examine the Git configurations, git pull and push, resolve conflicts, resetting, commits, merge techniques etc.
3. **Steps for experiment:**

# Create a new local repository and initialize it using git init

# Add file f1.java and edit it using vi command

# 

# Now using git add and git commit save the changes made to the file f1.java

# 

# Create a remote repository on GitHub Demo1 (without README.md).

# Now configure this GitHub repository as the new remote repository using git remote add origin <https link to the repository>

# Type git branch -m main to rename the local branch as main (same as remote)

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# Now in order to push the changes, i.e., f1.java file to remote repository use git push -u origin main

# 

# Check the updated remote repository with f1.java file

# `

# 

# Now create another repository on GitHub Demo2 (this time with README.md).

# 

# Check existing remote linked repositories using git remote -v command.

# Now link this remote repository to our local repository(same) using git remote add dope

# 

# Now using git pull dope main update local repository with remote repository Demo2 (This returns an error)

# 

# In order to merge both contents of 2 remote repositories with different commit histories into single local repository we use git pull dope main –allow-unrelated-histories

# 

# Now change the contents of README.md file using vi command

# Push the changes back to Demo2 (remote repository) using git push dope main after adding the file to staging area and committing the changes

# 

# Learning outcomes (What I have learnt):

* 1. Learnt about GitHub and Git.
  2. Learnt about commit, merge and add commands.
  3. Learnt about various git commands that can be applied on Git Bash.
  4. Learnt about repositories, branches and local and remote repository.
  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):**

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| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
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