

Assignment 1: Distributed version control system

Q1 Do the following using github and git (gitbash). Take clear screen shots at every step and answer step wise in the sequence below. Must mention your name and roll no in your assignment. Assignment to be submitted in soft as well as printed form (no color print, both sides print acceptable) till 16th march 2025.

1. Create an online repository of your web project (css folder, js folder, images folder, (html, php files in main folder)) in github.
2. Share link.
3. Must use gitbash
4. Clone it to your desktop using git app to make a local copy. using gitbash.
5. Create a new branch called "feature" using the git branch command.
6. Switch to the "feature" branch using the git checkout command.
7. List all content in directory using gitbash.
8. Create a new file called learn_yourrollnumber.php using gitbash.
9. In file write code to echo your name, using gitbash.
10. Show that initially changes are untracked. using gitbash.
11. Then show they are tracked but not committed. using gitbash.
12. Then commit them, using appropriate message, using gitbash.
13. Then make sure these changes happen in master branch in online repository using gitbash.
14. Show the changes in online repository, screen shot is sufficient.
15. Now make changes in online repository directly in index file.
16. Then pull it. using gitbash.
17. See the changes. using gitbash.
18. Make changes to file content using using gitbash.
19. Commit the changes directly using gitbash.
20. Use the git merge command to merge the "feature" branch into the "master" branch.
21. Resolve any conflicts that may arise during the merge process.
22. Use git log command.
23. Use clear command.

Q2 Write in your own words what is branching, difference between merge, push and pull.

Q3 Can I use the "clone" button that I see on my GitHub repository to clone my repository to my machine?

Q4 How to compare two files using git bash?