

Lab Activity 1

Instructions:

- Take care of the naming conventions mentioned in the activity. You will lose marks if the conventions are not followed.
- The deadline that would be mentioned during the class and Moodle would be strict. No extensions would be given.
- Recently, GitHub has stopped supporting password-based authentication for git operations (such as pull and push, used in the activity). One of the alternatives is to connect GitHub with SSH. You can refer the following [link](#).

Submission format:

- Create a folder, name it as your **RollNumber**.
- The folder will consists of 2 files.
 - First will be a file named **commands.txt** consisting of the all the git commands used in the activity (except for the commands used for setting up ssh keys)
 - Second file would be of name **repo.txt** consisting of the link to your github repository.
- Compress the folder to a zip file named **RollNumber_activity1.zip** and submit the same to Moodle

Activity:

1. Create a repository named 'SSD_Lab_1'
2. Add one file 'name.txt' with your name in it.
3. Use git add to add that file to the repository.
4. Use git commit to commit your change. Use a meaningful message like "Added information about YOUR NAME HERE."
5. Create a new public repository on github with the same name
6. Add a remote url using git remote.
7. Use git push to send your change to the primary repository.
8. Look online to see if your change has been pushed.
9. Open the github repository using your favourite browser and add the file 'name.txt' again but named as 'name2.txt'
10. Then use git pull to get the change into your repository. Verify that you have the new file.
11. Use git branch to create a new branch named 'other_details'.
12. Now create a new file named 'otherDetails.txt' and add the following:

Roll: Your_roll_no

Branch: Your_branch_at_IITH

13. Use git add to add that file to the repository.
14. Use git commit to commit your change.
15. Use git push to send your change to the primary repository.
16. Look online to see if your change has been pushed.
17. Use git checkout to switch to the branch we had created earlier 'other_details'.
18. Now create a new file named 'otherDetails.txt' and add the following (Note: The order is different from the previous file):

Branch: Your_branch_at_IITH

Roll: Your_roll_no

19. Use git add to add that file to the repository.
20. Use git commit to commit your change.
21. Use git push to send your change to the 'other_details' branch of the primary repository.
22. Look online to see if your change has been pushed.
23. Now create a pull request to merge the branch 'other_details' to 'master'.
24. You will notice that this will result in a merge conflict.
25. Resolve the merge conflict (Use the changes introduced in other_details branch).
26. Merge the pull request.