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Lab 1

Lab Report on GitHub Command

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Theory

GitHub
- It is a distributed version-control system for tracking the changes in source code during software development.
- It is designed for coordinating work among programmers, but it can be used to track changes in any set of all file.
- Its goal includes speed data integrity and support for distributed non-linear workflow.
- It outclasses SCM tools like Subversion, CVS, Perforce and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.

Procedure:
Firstly, we created a repository from GitHub website to upload files using git commands. By using commands, we perform two tasks:

1. Upload file to Github repository.
2. Create branches in Github repository.

Before uploading file to GitHub account, we must perform some commands in Gitbash terminal and they are as follows:

a. Initialize Git
   -git init

b. Connect Git with remote site
   - Git remote add origin https://github.com/Sagar1555/ncclab/

c. Config Git bash with GitHub
   - $ git config --global user.name "Your name hear"
   - $ git config --global user. Email your_email@example.com

After performing above commands, we are now set to upload files and create branches.

1. Upload files to GitHub repository:

i. git add. (for all files) OR git add <files_name> (for specific file)
ii. git commit -m "<message>"
iii. git push -u origin master

2. Create branch in GitHub repository:
i. git checkout -b <branch_name> OR git branch <branch_name>
ii. git push origin <branch_name>
iii. git merge - - no-ff <branch_name>

Conclusion:
Hence, we created a public repository and according to the above procedure we uploaded files to
the GitHub Repository and created branches in the Repository.