Experiment 1

b. Enlist following Linux commands with their explanation and execution
screenshots
1. Sudo 2. Apt -get 3. Ls 4. Cd 5. Ped 6. Cp 7. Mv 8. Rm 9. Mkdir 10. History 11. Df 12. Du 13. Free 14. Uname -a 15. Top 16. Man 17. Info 18. Passwd 19. Whatis 20. Date 21. W 22. Exit 23. Shutdown 24. Head 25. Tail 26. Echo 27. Grep 28. Zip 29. Unzip 30. <command name> -h or <command name> –help

Experiment 2

Execution of following Git commands along with screenshots of folder
contents
1. git --version 2. git init 3. git status 4. git config 5. git add 6. git commit 7. git log

Experiment 3

1. GitHub repository creation

2. Execution of following Git commands along with screenshots of folder contents & corresponding GitHub repository contents

1. git remote add origin <url>
2. git remote show origin
3. git push origin master
4. git fetch origin master
5. git merge origin/master
6. git pull origin master
7. git clone <url>

3. On GitHub repository:

1. New branch creation in own repository
2. Fork a public repository
3. Delete repository on github

4. Git cheat sheet commands:

1. git branch
2. git checkout
3. git rm filename
4. git remote -v

Experiment 7

7b. Execute following (Refer the shared material) and attach screenshots:
1. Create and build pipeline project with pipeline script
Project with Hello World pipeline script
Project with your own pipeline script
2. Create and build pipeline project with Git
Fork repository on GitHub
Create pipeline project with pipeline script from SCM
Add webhooks to the forked repository
Build pipeline project
Add file to forked repository and observe the automated build
Make changes to Jenkins file on forked repository and observe the
automated build

Experiment 9

Execute following (Refer the shared material) and attach screenshots:
Create Docker Hub account – screenshot of steps related to account creation
Download and install Docker Desktop – screenshots of installation steps
Execute following docker commands and take screenshots

1. Docker version
2. Docker login
3. Docker images
4. Docker pull image
5. Docker pull image-tag
6. Docker images help
7. Docker run commands
8. Docker ps
9. Docker start container
10. Docker pause container
11. Docker stop container
12. Docker top container
13. Docker stats container
14. Docker rm container
15. Docker inspect
16. Docker rmi
17. Docker commit
18. Docker push
19. Docker history image

Dockerfile and html file screenshots
running the web application on Docker Engine screenshots