LINUX ASSIGNMENT 01

1.Create a new directory(folder)

Ans . mkdir folder\_name

2. Create/Open text file using vi

Ans. vi file\_name.txt

3. Copy file from src to dest

Ans. **cp -r src dest**

4. Copy folde from src to dest

Ans. cp src\_Folder\_Name dest\_file\_name

5. Rename file and folder name.

Ans. mv filename new\_File\_Name – to rename the file

mv foldername newFolderName – to rename the folder

6. Delete a single file.

Ans. rm fileName

7.Delete a whole folder.

Ans. rm –r folderName

8.Write a command to Change the working directory.

Ans. cd directry\_name

9.How to Move to the Parent Folder

Ans. mv folder\_name

10. List contents of a folder

Ans ls –ltr folder\_name

11.List contents of a folder including hidden files

Ans. ls –ltr –a folder\_name

12.Write a command to check the Print current directory.

Ans. pwd

13.How to Open a manual for a command

Ans. man command is used to open a manual

Ex: man mkdir – this will open the manual for the man commend

14.Create a new directory with the name COL100.

Ans. mkdir COL100

15.Change the current directory to COL100.

Ans. cd COL100

16.In this directory, create another folder, called Lab0.

Ans. mkdir Lab0

17.Change the current directory to Lab0.

Ans. cd Lab0

18.Create a text file me.txt using vi and copy the contents of me.txt to mycopy.txt using cp

Ans. vi me.txt

Cp me.txt mycopy.txt

19.Rename mycopy.txt as stillme.txt using mv

Ans. mv mycopy.txt stillme.txt

20.Check if the file has been renamed by listing the contents using ls

Ans. ls –ltr

21.Copy the directory hierarchy COL100 to COL100copy using cp –r

Ans. cp –r COL100 COL100copy

22.Check the contents of the folder COL100copy by going to the folder (cd) and then listing the contents(ls).

Ans. **cd COL100\_copy**  
**ls**

23.Go out of the folder (cd ..) and delete the whole directory COL100copy

Ans. cd..

rm –r COL100

24.Write a command to count no. of lines, no of words, no. of characters in a file

Ans. wc –l file\_name – to count number of line

wc –c file-name – to count number of characters

wc –w file\_name - to count number of word

25.Write a command to search a pattern in a file

Ans. grep “patter” file\_name

26.Write a command to display the running process

Ans. Ps -ef

27.Write a command to stop the process forcefully

Ans. kill process-id

28.How you are going to stop the process gracefully

Ans. kill id

29.how you’re going to check which process is taking more memory

Ans. top

30.Write a command to see the available ports on the system and listening(used) ports

Ans. netstat –a

31.command is used to check if the remote server port is open or not

Ans. telnet

Git

Assignment – 1

1.Clone our fork of the project locally. (Any github project)

Ans. opening git hub account.

A.searching for project

B.forking it to repo

C.using git clone <url>in git bash ,to clone

2.Create a descriptive topic branch.

Ans. git branch branch\_name

Git checkout branch\_name

3.Make our change to the code.

Ans.

A.adding new .txt file

B.git add .

4.Check that the change is good.

Ans. Git status

5.Commit our change to the topic branch.

Ans. git commit –m “message”

6.Push our new topic branch back up to our GitHub fork.

Ans. Git push origin branch\_name

Assignment – 2

1.Add the original repository as a remote named upstream.

Ans. Git remote add upstream <url>

2.Fetch the newest work from that remote.

Ans. git fetch upstream

3.Merge the main branch of that repository into your topic branch.

Ans. EDIT a same file in both the branch and then

A.switch to topic branch

B.use marge commend

4.Fix the conflict that occurred.

Ans. open the file and view for the requirements .

Again save changes by adding and commiting.

5.Push back up to the same topic branch.

Ans. git push upstream topic

Assignment – 3

1.Fork the project. (Any github project)

Ans. Open github and search for any project and then fork it to your repo in github.

2.Create a topic branch from the master.

Ans. Git branch branch\_name

3.Make some commits to improve the project.

Ans. Open some file and edit . Add and commit it

4Push this branch to your GitHub project.

Ans. Git push origin branch\_name

5.Open a Pull Request on GitHub.

Ans. Open github acc.

Open pull request

6.Discuss, and optionally continue committing.

Ans. Doing some commits in local repo.

7.The project owner merges or closes the Pull Request.

Ans. this happens in github acc. By project owner

8.Sync the updated master back to your fork.

Ans. Using sync option in github

Assignment 4

Adding files to the repository

Create a folder with all the necessary files to be pushed into the repository.

Open a terminal from VSCode, go to the created folder, and perform the following steps:

git init

git status

git add .

git status

git commit -m “Any message”

Enter the two statements from the notepad(git remote add and git push)

Refresh the repository page to see the pushed files.

Ans.

**Step1: VsCode -> Opened vs code terminal using ctrl+`**  
**Step2: Performed the below steps.**  
**git status**  
**git add .**  
**git commit -m "Commit from vsCode terminal"**  
**git remote**  
**git branch**  
**git checkout topic**  
**git status**  
**git merge main**  
**git status**  
**git push origin topic**

Assignment 5

Creating an assignment in the GitHub classroom

Click on “Create your first assignment”.

Enter the title starting with Assign- and followed by a number (Ex: Assign-02) and click on continue.

Click on select a repository and type the repository name created in GitHub and choose it.

Select the template repository and click on continue.

Under Add Autograding tests, click on Add test and choose “run python”.

For each file in your repository, perform the following steps:

Enter the program file name in the test name field.

Clear setup command field.

Enter the program file name in the test name field.

Enter

python3 filename.py - in the run command field.

Enter the points for the program (optional).

Save the test case and click on create an Assignment.