**GIT commands that are important to learn to use command line**

1. **git config –global user.name** **Harendra** – For configuring the name
2. **git config –global user.email** [**harendrakumarrajpoot@gmail.com**](mailto:harendrakumarrajpoot@gmail.com) – to set the email
3. **git config –global user.name** – For checking the changes have been affected
4. **git config** **–global user.email** - For checking the changes have been affected
5. **code .** – to open the VS Code
6. **git init** – initialize the git repository
7. **ls -lart** – To see the Hidden files
8. **git status** – To check the status of the files
9. **git add index.html** – To add to the staging area
10. **git commit** – to send the staged files to commit
11. **press Insert then :wq** then write the name of the initial commit (Wim editor)
12. **touch about.html** – to create a empty file named with about.html
13. **git add -A** – To add all the untracked files to staging area
14. **git commit -m “Any Commit message”** – to add the commit and message **shortcut**
15. **clear** – to clear the previous files
16. **git checkout contact.html** – To match the file with last commit
17. **git checkout -f** – All files get matched to the previous files
18. **git log** – to check the activity of the files, all the commits are shown and config files
19. **git log -p -1**– to see he last 1 commits on the machine and shows the changes we made
20. **press q to quit**
21. **git diff** – it compares the working tree with staging area(if both are same then no output)
22. **git diff –stagged** -compare the last commit with staging area
23. **git checkout -f** – matches the file with last commit
24. **git commit -a -m “skipped staging area and fixed”** -If you wat to directly commit the file without making it to the staging area( for beginners only)
25. **ls** -we can see all the files as it is feature of UNIX.
26. **touch delete.html -**to create a empty file
27. **git add -A**
28. **git commit -a -m “Add waste file”**
29. **git rm –cached** – it will remove from staging area only not from hard disk
30. **git rm waste.html** -If you want to delete a file
31. **git commit -a -m “removing waste”**
32. **git log -p -2** – If you want to see 2 commits
33. **git status -s** – shows the summarized status(modify the file then use this command )
34. git add file.html
35. **git status -s** 🡪 shows the m in green
36. **touch .gitignore** -Files that you don’t want tag
37. **touch mylog.log** -Example of log file write anything
38. **in gitignore write mylogs.log to ignoire all the file with this name**
39. **run git status -**it will not show that file added in the gitignore
40. **add this in gitignore /mylogs.log -**if you want to add the same file in same folder
41. **git rm –cached logs/mylogs.log** -to remove from the stages area
42. **\*.log in gitignore – To add file with .log**
43. **ignore a folder foldername/**
44. **Git commit -a -m “Ignoring the files in the ignore files”**

**Creating a Branch by command line**

1. **git status** -Explain about the on branch master
2. **git branch -**it shows all the branch in the git
3. **git branch update1** -New branch with name update1 is created
4. **git branch** – now two branches will be shown
5. **git checkout update1** -Switch to the branch update1

**Using the merge feature in the git command line**

*Make some changes in the code you have written in any of the file then use next command*

1. **git add -A**
2. **git commit -m “Fixed the programs and added more features”**
3. **git status**
4. **git checkout master** – To move to the master Branch
5. **git checkout update1**
6. **add the comment in the file any comment**
7. **git commit -a -m “added some comments”**
8. **git status**
9. **git checkout master** -for merging the branch to master then we will switch to master
10. **git log**
11. **git merge update1** -this merge the update code to master
12. **git log -p -2** -We can see the logs of the same commit in update to the master now.
13. **git checkout -b nodeintegration** -It will switch and make the branch in this command

**Create a js file and add some printing code in it then commit**

1. **git commit -a -m “Added the node file in the code”**
2. **git status**
3. **when we switch to master the file of node will be lost now**
4. **git checkout master**
5. **in about.html write anything**
6. **git commit -a -m “modified the about page”**
7. **git status**
8. **git checkout nodeintegration**
9. **files again comes**

**Now talk about GitHub service (Microsoft service)**

**On command line**

1. **git checkout master**
2. **remote repository**
3. **paste the repository origin URL in the GitHub**
4. **git remote**
5. **git remote -v (push and fetch urls)**
6. **git push origin master ( as the private repo then it will show there is no repo)**
7. **create new folder on desktop on clone**
8. **copy the clone url**
9. **git clone url foldernanme (clone to the folder name )**