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| **GIT COMMANDS** | | | | |
| sr no | commands | Description | syntax | example |
| 1 | git init | starts the new git repository | git init [repository name] | git int learn\_git |
| 2 | git config | the command sets the author name and email address to commit | git config --global user.name "[name]"  git config --global user.email "[email address]" | git config --global user.name "gdmallikarjuna" git config --global user.email "gdmallikarjuna@gmail.com" |
| 3 | git clone | This command is used to obtain a repository from an existing URL. | git clone [url] | git clone https://github.com/gdmallikarjuna/training.git |
| 4 | git add | adds the file to staging area | git add [file] | git add welcome123.txt |
|  |  | adds more than one file | git add \* | git add \* |
| 5 | git commit | This command records or snapshots the file permanently in the version history. | git commit -m "[ message]" | git commit -m "Welcome message" |
|  |  | you’ve added with the git add command and also commits any files you’ve changed since then | git commit -a | git commit -a |
| 6 | git diff | shows the file differences which are not yet staged. | git diff | git diff |
| ``` |  | shows the differences between the files in the staging area and the latest version present | git diff –staged | git diff –staged |
|  |  | compare branches | git diff [branch-a] [branch-b] | git diff master dev |
| 7 | git reset | This command unstages the file, but it preserves the file contents. | git reset [file] | git reset challenge.txt |
|  |  | This command undoes all the commits after the specified commit and preserves the changes locally | git reset [commit] | git reset <hashode> |
|  |  | command discards all history and goes back to the specified | git reset –hard [commit] |  |
| 8 | git status | This command lists all the files that have to be committed. | git status | git status |
| 9 | git rm | this command deletes the file from working directory and stages deletion | git rm [file] | git rm challenges.txt |
| 10 | git log | it list the version history of the current branch | git log | git log |
| 11 | git show | shows the metadata and content changes of the specified commit | git show [commit] | git show b7254b5a437ee4eae59c2ea5478ea0ad12107ec2 |
| 12 | git tag | This command is used to give tags to the specified commit | git tag [commitID] | git tag b7254b5a437ee4eae59c2ea5478ea0ad12107ec2 |
| 13 | git branch | lists all the branches | git branch | git branch |
|  |  | create new branch | git branch [branch name] | git branch dev |
|  |  | delete a branch | git branch -d [branch name] | git branch -d dev |
| 14 | git checkout | switching from one branch to another | git checkout [branchname] | git checkout dev |
|  |  | create new branch and also switch to it | git checkout -b [new branch name] | git checkout -b test |
| 15 | git merge | merged to brach history to current directory | git merge [branch name] | git merge dev |
| 16 | git remote | This command is used to connect your local repository to the remote server | git remote add [variable\_name] [Remote server link] | git remote add mallik https://github.com/gdmallikarjuna/training.git |
| 17 | git push | the committed changes of master branch to your remote repository. | git push [variable name] master | git push origin master |
|  |  | it pushes all branches | git push --all [variable name] | git push --all |
| 18 | git pull | it pulls the changes from remote link | git pull [Repository Link] | git pull https://github.com/gdmallikarjuna/training.git |
| 19 | git stash | git stash temporarily shelves (or stashes) changes you've made to your working copy so you can work on something else, and then come back and re-apply them later on | git stash save | git stash save |
|  |  | restores most recently files | git stash pop | git stash pop |
|  |  | lists all stashed changesets | git stash list | git stash list |
|  |  | discard the most recently stashed | git stash drop | git stash drop |