

# Git Training POC

1. Login to GitHub 'https://github.com/' and create new repository.

2. Create a new local project in the Public folder.

3. Open terminal.

```
rohit@rohit:~$ cd Public && mkdir git_poc  
rohit@rohit:~/Public$ cd git_poc_project
```

4. Now initialize the git by using "git init" on your terminal.

```
rohit@rohit:~/Public/git_poc$ git init
```

5. Now add the remote url of repository that we created in step 1.

```
rohit@rohit:~/Public/git_poc$ git remote add origin https://github.com/rohit-lodhi/git_poc.git
```

6. To verify the remote url use 'git remote -v' :

```
rohit@rohit:~/Public/git_poc$ git remote -v
```

7. Now add a 'README.md' file in your project folder.

```
rohit@rohit:~/Public/git_poc$ echo "# git_poc" >> README.md
```

8. To track changes in your project folder use 'git status'.

```
rohit@rohit:~/Public/git_poc$ git status
```

9. Newly added files will show in Untracked files.

10. Now add newly added files from Untracked files.

```
rohit@rohit:~/Public/git_poc$ git add .
```

11. Now add first commit to stage file changes.

```
rohit@rohit:~/Public/git_poc$ git commit -m "first commit"
```

12. Push the staged commit from local to remote repository.

```
rohit@rohit:~/Public/git_poc$ git push -u origin master
```

13. Create new branch and checkout to newly created branch

```
rohit@rohit:~/Public/git_poc$ git checkout -b staging
```

14. To check current branch use 'git branch' it shows the list of branches.

```
rohit@rohit:~/Public/git_poc$ git branch
```

15. Now add/change local files/folder as you want in the new branch staging.

16. Again to track changes in staging use 'git status' and to add those follow step 11 and 12.

17. Push changes to newly created branch to remote repository.

```
rohit@rohit:~/Public/git_poc$ git push origin staging
```

18. To switch between branches use 'git checkout branch\_name'.

```
rohit@rohit:~/Public/git_poc$ git checkout master
```

19. To merge changes of staging to master branch use 'git merge branch\_name'.

```
rohit@rohit:~/Public/git_poc$ git merge staging
```

20. To push merge changes from local to remote repository use:

```
rohit@rohit:~/Public/git_poc$ git push origin master
```

21. To track the differences between files/branches use 'git diff file\_name/branch\_name'

22. To track the git changes use 'git log --pretty=oneline'

```
rohit@rohit:~/Public/git_poc$ git log --pretty=oneline
```