

1. create a new folder gitdemos. convert it to a repo using git init
  - mkdir gitdemos
  - git init
2. Add 2 files trial1.txt, trial2.txt, check status
  - touch trial1.txt
  - touch trial2.txt
  - git status
3. stage both the files, check status
  - git add .
  - git status
4. unstage trial1.txt, check status
  - git rm --cached trial1.txt
  - git status
5. commit trial2.txt, check status
  - git commit -m "commit 1 - added trial2.txt"
  - git status
6. stage trial1 and commit, check status
  - git add .
  - git commit -m "commit 2 - added trial1.txt"
  - git status
7. modify trial1 and trial2, add a new file hello.txt, commit
  - touch hello.txt
  - git add .
  - git commit -m "commit 3 - modified trial1,2; added hello.txt"
8. stage trial1 alone. check status short
  - git add trial1.txt
  - git status --short
9. move the staged trial1 file to unstaged
  - git restore --staged trial1.txt
10. move the modified file trial1 to unmodified
  - git restore trial1.txt
11. move the modified file trial2 to unmodified
  - git restore trial2.txt

12. check status your working should be clean

- git status

```
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$ git status
On branch master
nothing to commit, working tree clean
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$
```

13. create .project, .classpath, bin folder with .class files

- touch .project
- touch .classpath
- mkdir bin
- cd ./bin
- touch .class

14. create .gitignore. add the files stage and commit

- git add .
- git commit -m "commit 4 - added .gitignore file"

15. git log to check the commits

- git log

```
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$ git log
commit fac42dbc6c0c9c83e2f7f69658c12a42771d8ad7 (HEAD -> master)
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 22:01:48 2024 +0530

    commit 4 - added .gitignore file

commit 129c5d099f6acae2206bbcd919c096ca00ae31ae
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:55:20 2024 +0530

    commit 3 - modified trial1,2; added hello.txt

commit 4481fbc2fc21ca5f00235b79e72eeee74a871aba
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:48:40 2024 +0530

    commit 2 - added trial1.txt

commit 5a86ef3b4b7a3eb2de3a7fdeba1fd3c58d79c832
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:45:59 2024 +0530

    commit 1 - added trial2.txt
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$
```

16. create branch as reports

- git branch reports

17. check out to reports

- git checkout reports

18. modify trial1 and commit and modify trial2 and commit

- git add trial1.txt
- git commit - m "commit 5 - made changes to the trial1.txt reports branch"
- git add trial2.txt
- git commit - m "commit 6 - made changes to the trial2.txt reports branch"

20. use git log see one line logs

- git log
- git log --oneline

```
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$ git log
commit 171191feff902dbc0982cebb01c021752bee0bd5 (HEAD -> reports)
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 22:06:19 2024 +0530

    commit 6 - made changes to the trial2.txt reports branch

commit 6a9ba5c57a968afc1a3655a83798653be8c77585
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 22:05:23 2024 +0530

    commit 5 - made changes to the trial1.txt reports branch

commit fac42dbc6c0c9c83e2f7f69658c12a42771d8ad7 (master)
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 22:01:48 2024 +0530

    commit 4 - added .gitignore file

commit 129c5d099f6acae2206bbcd919c096ca00ae31ae
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:55:20 2024 +0530

    commit 3 - modified trial1,2; added hello.txt

commit 4481fbc2fc21ca5f00235b79e72eeee74a871aba
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:48:40 2024 +0530

    commit 2 - added trial1.txt

commit 5a86ef3b4b7a3eb2de3a7fdeba1fd3c58d79c832
Author: bigee1397 <bhargavreddyr15@gmail.com>
Date: Tue Feb 27 21:45:59 2024 +0530

    commit 1 - added trial2.txt
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$ git log --oneline
171191f (HEAD -> reports) commit 6 - made changes to the trial2.txt reports branch
6a9ba5c commit 5 - made changes to the trial1.txt reports branch
fac42db (master) commit 4 - added .gitignore file
129c5d0 commit 3 - modified trial1,2; added hello.txt
4481fbc commit 2 - added trial1.txt
5a86ef3 commit 1 - added trial2.txt
bigee@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$
```

## 21. merge reports to master

- `git merge reports -m "merging master with reports"`

```
biggie@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$ git log --oneline
171191f (HEAD -> master, reports) commit 6 - made changes to the trial2.txt reports branch
6a9ba5c commit 5 - made changes to the trial1.txt reports branch
fac42db commit 4 - added .gitignore file
129c5d0 commit 3 - modified trial1,2; added hello.txt
4481fbc commit 2 - added trial1.txt
5a86ef3 commit 1 - added trial2.txt
biggie@MSI:/mnt/c/Users/bharg/OneDrive/Documents/gitdemos$
```