


Section 0

Section 0-Use GIT as local VCS. Steps to follow:

1. Create a directory 'project_dir' & cd to 'project_dir'.
2. Initialize git version database. (git in it)
3. Create a new file index.html.
4. Check the git status. You should find index.html as untracked file.
5. Stage the index.html file.
6. Commit index.html
7. Make few changes in index.html & create a new file info.txt file.
8. Check git status. You should find index.html & info.txt as untracked files.
9. Configure GIT to ignore all txt files.
10. Again check the git status. You should find only index.html as untracked file.
11. Stage & commit index.html
12. Log all your comments so far.
13. Make some changes in index.html.
14. Revert the change made in the previous step using git command.
15. Again change index.html.
16. Stage index.html
17. Revert back the last stage.
18. Rename 'add' command to 'my-add'.
19. Using my add command Stage index.html again & commit the changes.
20. Revert the last commit.

1. Create a directory 'project_dir' & cd to 'project_dir'.
2. Initialize git version database. (git in it)
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4. Check the git status. You should find index.html as untracked file.
5. Stage the index.html file.
6. Commit index.html
7. Make few changes in index.html & create a new file info.txt file.
8. Check git status. You should find index.html & info.txt as untracked file

 MINGW64:/c:/Users/arul/project_dir

```
arul@LAPTOP-5PHUIBFM MINGW64 ~ (master)
$ mkdir project_dir

arul@LAPTOP-5PHUIBFM MINGW64 ~ (master)
$ cd project_dir

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git init
Initialized empty Git repository in C:/Users/arul/project_dir/.git/

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ touch index.html

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    index.html

nothing added to commit but untracked files present (use "git add" to track)

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git add index.html

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git commit -m "Initial commit"
[master (root-commit) 1e77b34] Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ touch info.txt


arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git status
On branch master

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    info.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

9. Configure GIT to ignore all txt files.
10. Again check the git status. You should find only index.html as untracked file.
11. State & commit index.html
12. Log all your comments so far.

 MINGW64:/c/Users/arul/project_dir

```
arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ touch .gitignore

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore

no changes added to commit (use "git add" and/or "git commit -a")

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git add index.html

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git commit -m "Added hello to index.html"
[master 9810cec] Added hello to index.html
1 file changed, 5 insertions(+)

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git log
commit 9810cec6f1ed6b0bda1dd78d9c943e1912500954 (HEAD -> master)
Author: Arul Prasad <arulprasadrr99@gmail.com>
Date:   Sat Jan 15 11:06:18 2022 +0530

    Added hello to index.html

commit 1e77b346069019680b4a7e7e25169dc0aeb6043c
Author: Arul Prasad <arulprasadrr99@gmail.com>
Date:   Sat Jan 15 10:40:50 2022 +0530

    Initial commit
```

Steps 13: Made some changes to index.html

14. Revert the change made in the previous step using git command.
15. Again change index.html.
16. Stage index.html.

```
arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git revert 5591236a822084aeccdff76094e646b69adfdd08
[master 00920d5] Revert "Added paragraph to index.html"
1 file changed, 1 deletion(-)

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git add index.html
```

17. Revert back the last stage.
18. Rename 'add' command to 'my-add'.
19. Using my add command Stage index.html again & commit the changes.

```
ru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
git restore --staged index.html

ru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore

no changes added to commit (use "git add" and/or "git commit -a")

ru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
git config --global alias.my-add add

ru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
git my-add index.html

ru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
git commit -m "Added paragraph to index.html"
[master 84d9ee2] Added paragraph to index.html
1 file changed, 1 insertion(+)
```

20. Revert the last commit.

```
aru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git revert 84d9ee2b734190b6e612f2af9177c9f170e0d86b
[master 4e746b2] Revert "Added paragraph to index.html"
1 file changed, 1 deletion(-)
```

```
aru1@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
```

Finally, pushing into remote repository arul.prasad-r in GitHub

```
arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git remote add origin https://github.com/arulrr99/arul.prasad-r.git

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$ git push -u origin master
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (14/14), 1.25 KiB | 256.00 KiB/s, done.
Total 14 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/arulrr99/arul.prasad-r.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

arul@LAPTOP-5PHUIBFM MINGW64 ~/project_dir (master)
$
```