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

1. Create a directory 'project_dir' & cd to 'project_dir'.

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.22000.258]
(c) Microsoft Corporation. All rights reserved.

C:\Users\soura\Desktop\Capgemini\Training\git>mkdir project_dir

C:\Users\soura\Desktop\Capgemini\Training\git>cd project_dir

C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>
```

2. Initialize git version database. (git init)

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>git init
Initialized empty Git repository in C:/Users/soura/Desktop/Capgemini/Training/git/project_dir/.git/
```

3. Create a new file index.html.

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>type nul > index.html
```

4. Check the git status. You should find index.html as untracked file.

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>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)
```

5. Stage the index.html file.
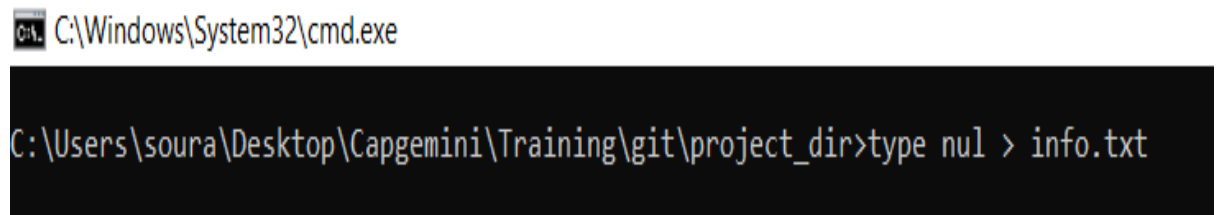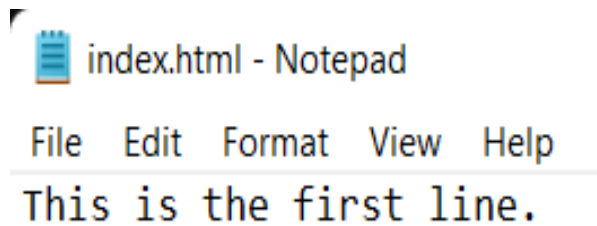
C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>git add index.html
```
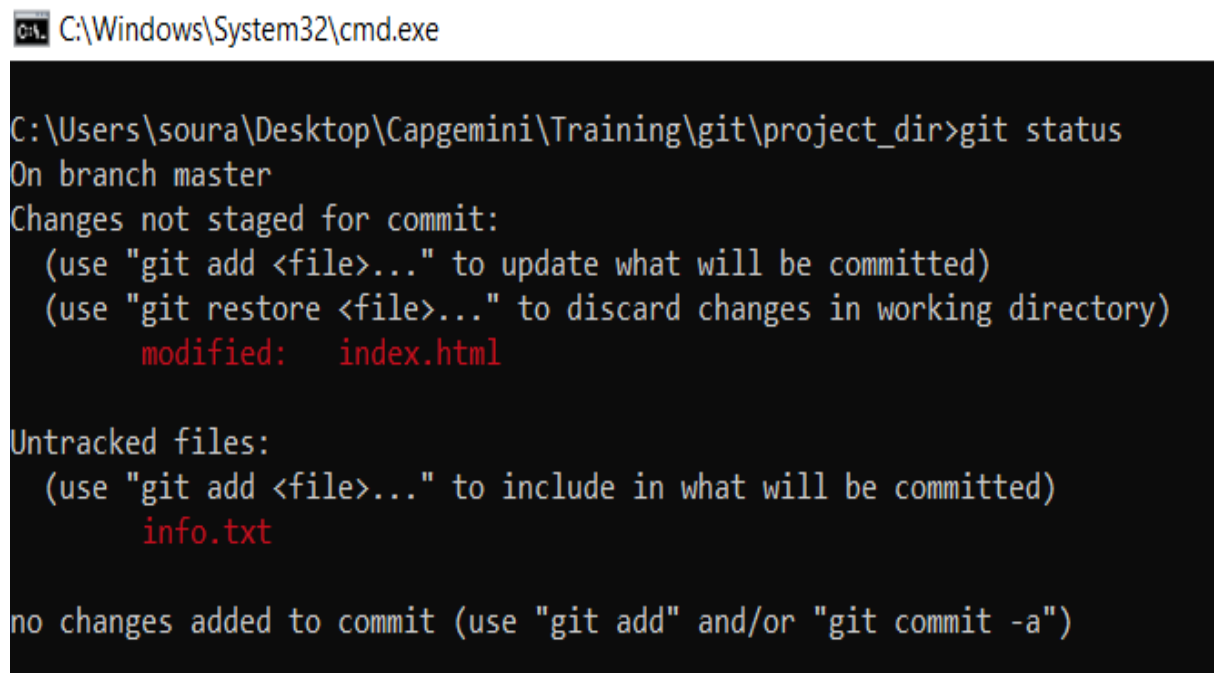
6. Commit index.html

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>git commit -m "Committing index.html for the first time"
[master (root-commit) 2307b61] Committing index.html for the first time
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
```

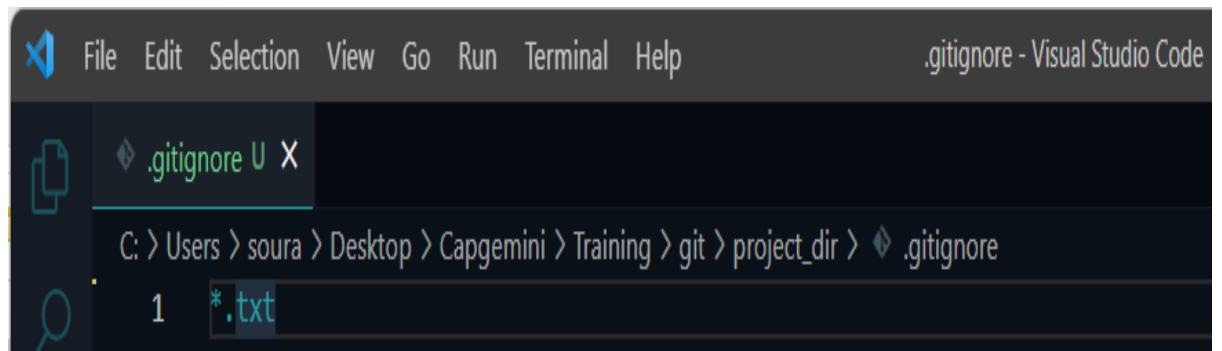7. Make few changes in index.html & create a new file info.txt file.

index.html - Notepad

File   Edit   Format   View   Help

This is the first line.

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>type nul > info.txt
```

8. Check git status. You should find index.html & info.txt as untracked files.

C:\Windows\System32\cmd.exe

```
C:\Users\soura\Desktop\Capgemini\Training\git\project_dir>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.

```
soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ touch .gitignore
```

File   Edit   Selection   View   Go   Run   Terminal   Help   .gitignore - Visual Studio Code

.gitignore U X

C: > Users > soura > Desktop > Capgemini > Training > git > project_dir > .gitignore

```
1    *.txt
```

10. Again check the git status. You should find only index.html as untracked file.

```
soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/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")
```

11. State & commit index.html


```
soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git add index.html

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git commit -m "Committing index.html for the second time"
[master 818f8dc] Committing index.html for the second time
 1 file changed, 1 insertion(+)
```

12. Log all your comments so far.


```
soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git add index.html

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git commit -m "Committing index.html for the second time"
[master 818f8dc] Committing index.html for the second time
 1 file changed, 1 insertion(+)
```

13. Make some changes in index.html.

*index.html - Notepad

File   Edit   Format   View   Help

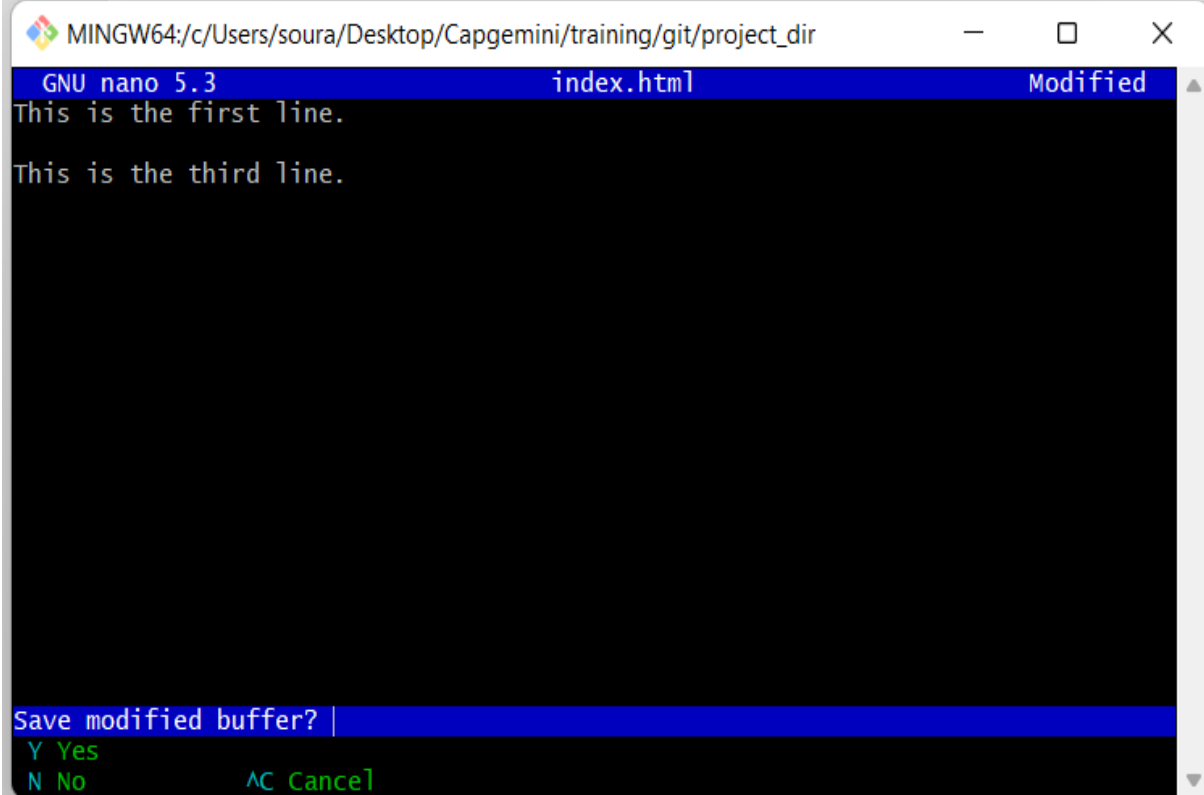This is the first line.
This is the second line.

14. Revert the change made in the previous step using git command.


```
MINGW64:/c/Users/soura/Desktop/Capgemini/training/git/project_dir

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git restore index.html
```

15. Again change index.html.


```
MINGW64:/c/Users/soura/Desktop/Capgemini/training/git/project_dir        —    □    ×

  GNU nano 5.3                        index.html                        Modified
This is the first line.

This is the third line.




















Save modified buffer?
 Y Yes
 N No             ^C Cancel
```

16. Stage index.html

```
MINGW64:/c/Users/soura/Desktop/Capgemini/training/git/project_dir

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (mast
er)
$ git add index.html
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory
```

17. Revert back the last stage.

```
MINGW64:/c/Users/soura/Desktop/Capgemini/training/git/project_dir

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git reset index.html
Unstaged changes after reset:
M       index.html
```

18. Rename 'add' command to 'my-add'.

```
MINGW64:/c/Users/soura/Desktop/Capgemini/training/git/project_dir

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
$ git config --global alias.my-add add

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/training/git/project_dir (master)
```

19. Using my-add command Stage index.html again & commit the changes.

```
MINGW64:/c/Users/soura/Desktop/Capgemini/Training/git/project_dir

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/Training/git/project_dir (mast
er)
$ git commit -m "This is the final commit"
[master e40631c] This is the final commit
 1 file changed, 3 insertions(+), 1 deletion(-)
```

20. Revert the last commit.

```
soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/Training/git/project_dir (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore

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

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/Training/git/project_dir (master)
$ git reset HEAD~
Unstaged changes after reset:
M       index.html

soura@LAPTOP-BIUG384C MINGW64 ~/Desktop/Capgemini/Training/git/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")
```