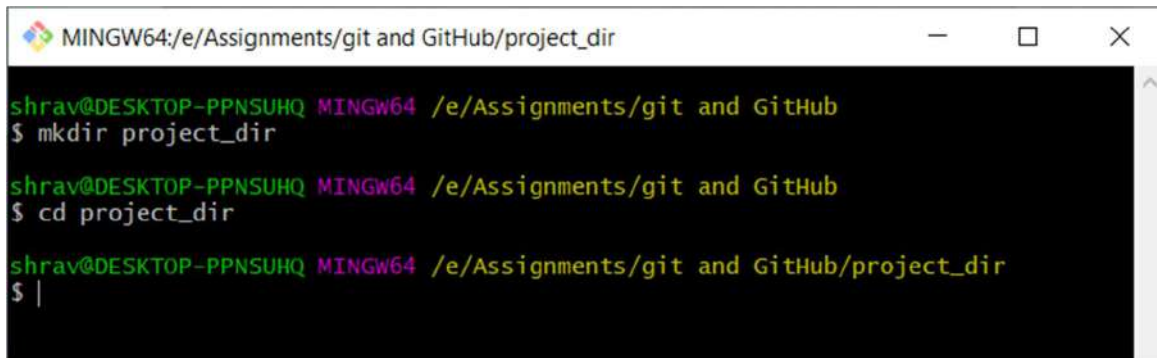


Using GIT as local VCS. Steps to follow:

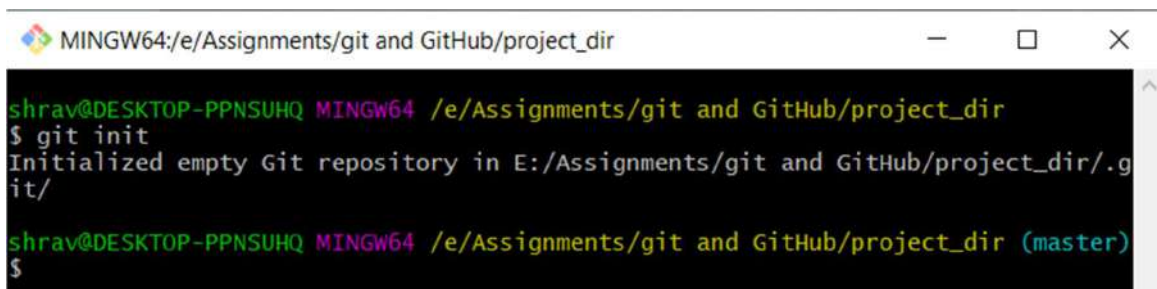
Step :

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

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir'. The prompt is 'shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub'. The user enters '\$ mkdir project_dir', then '\$ cd project_dir', and finally '\$ |' on the next line.


```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub
$ mkdir project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub
$ cd project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir
$ |
```

2. Initialize git version database. (git init)

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir'. The prompt is 'shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir'. The user enters '\$ git init', which outputs 'Initialized empty Git repository in E:/Assignments/git and GitHub/project_dir/.git/'. The prompt then changes to 'shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)' and the user enters '\$'.

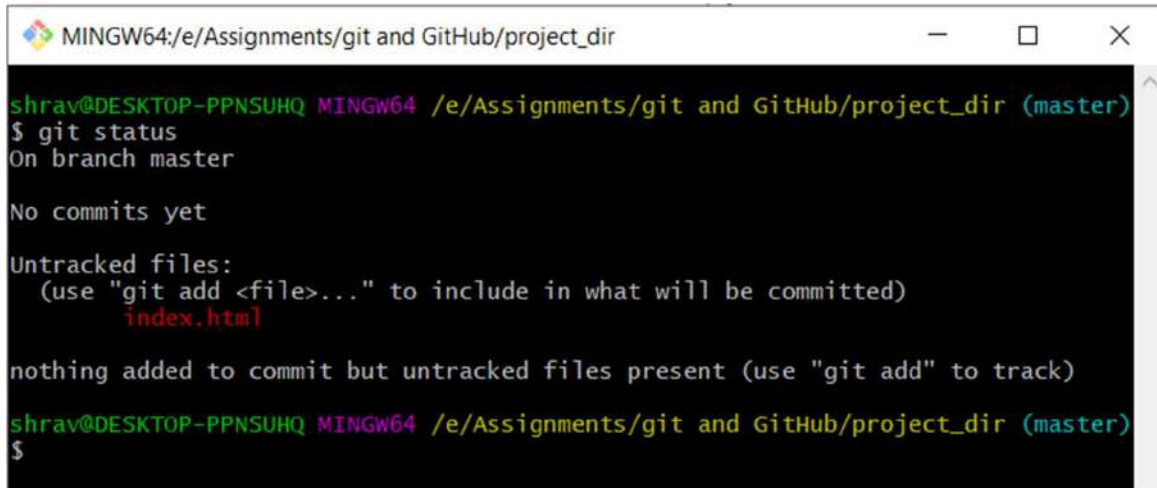
```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir
$ git init
Initialized empty Git repository in E:/Assignments/git and GitHub/project_dir/.git/
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

3. Create a new file index.html.

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir'. The prompt is 'shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)'. The user enters '\$ touch index.html'. The prompt then changes to 'shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)' and the user enters '\$'.

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ touch index.html
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

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

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir' showing the output of the 'git status' command. The output indicates that the user is on the 'master' branch, there are no commits yet, and 'index.html' is an untracked file. It also provides instructions on how to use 'git add' to track the file.

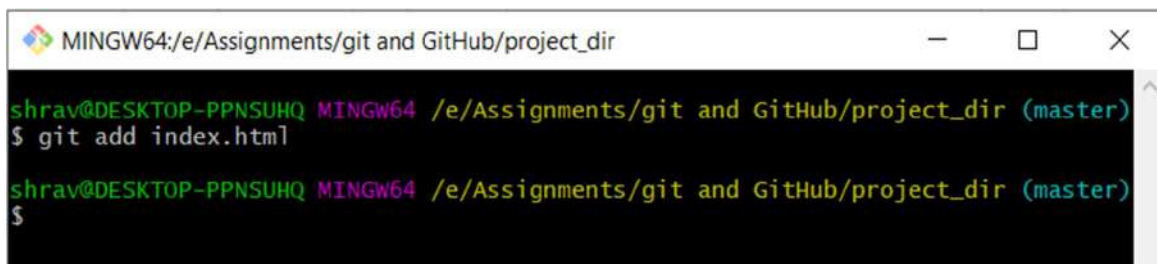
```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git status
On branch master

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)
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

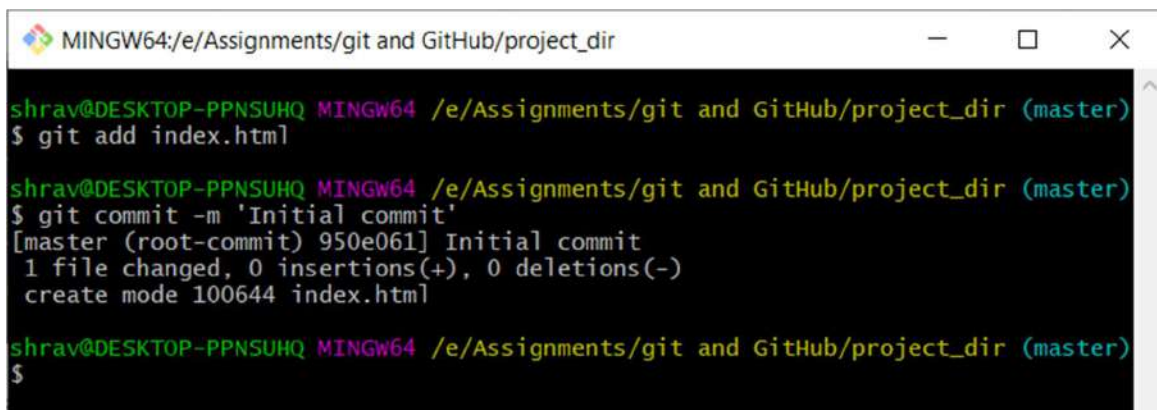
5. Stage the index.html file.

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir' showing the execution of the 'git add index.html' command. The prompt returns to the shell, indicating the command was successful.

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git add index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

6. Commit index.html

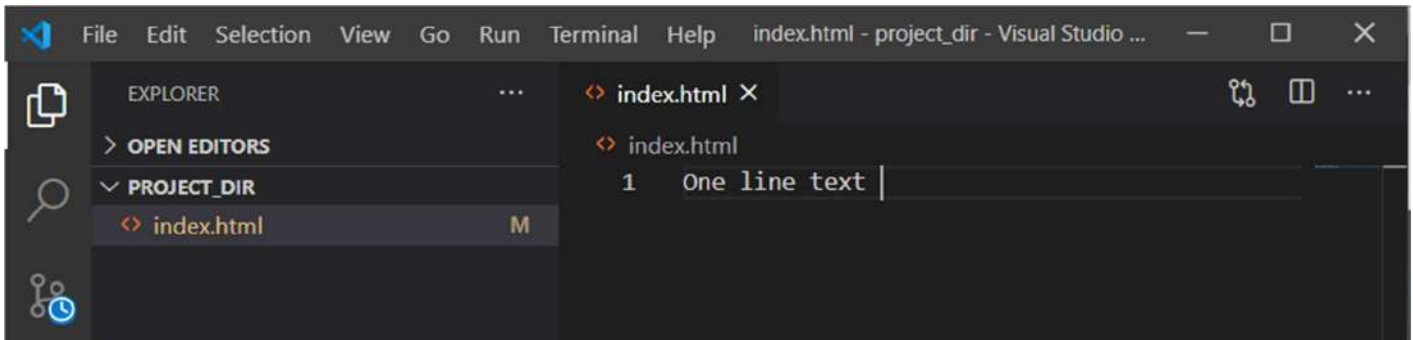
A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir' showing the execution of 'git add index.html' followed by 'git commit -m 'Initial commit''. The output shows the creation of the initial commit with hash 950e061, indicating that 1 file was changed.

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git add index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git commit -m 'Initial commit'
[master (root-commit) 950e061] Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

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



```
MINGW64:/e/Assignments/git and GitHub/project_dir

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ code .

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ touch info.txt

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

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

```
MINGW64:/e/Assignments/git and GitHub/project_dir

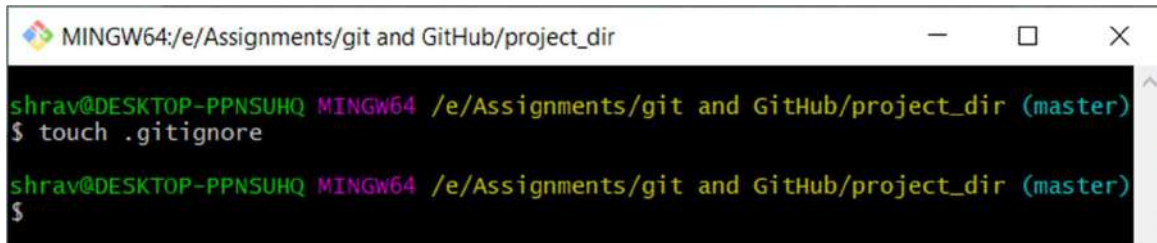
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html

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")

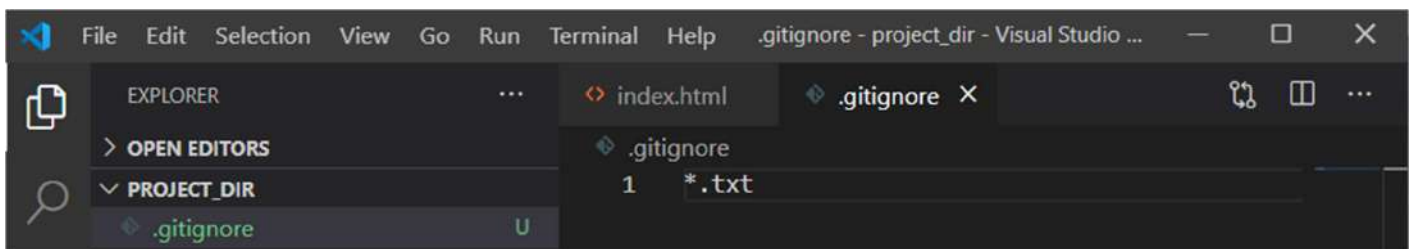
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

9. Configure GIT to ignore all txt files.

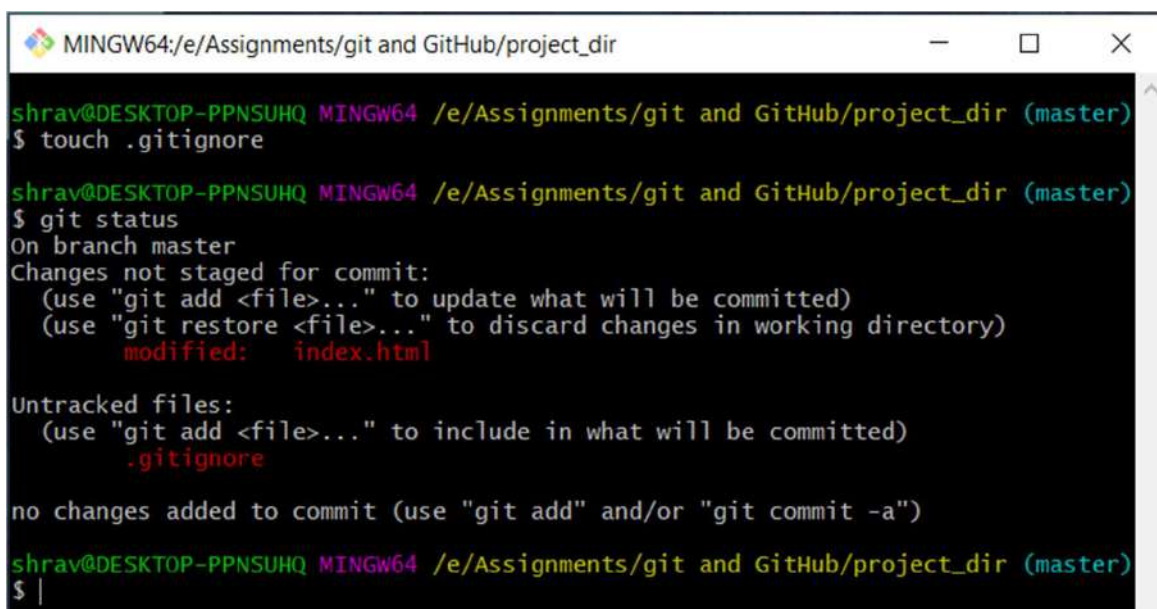


```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ touch .gitignore

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```



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



```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ touch .gitignore

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/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")

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```


11. State & commit index.html

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git add index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git commit -m 'One line text added in file'
[master 0f0819e] One line text added in file
1 file changed, 1 insertion(+)

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

12. . Log all your comments so far.

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git log
commit 0f0819ec324230bd75e503b833958bc791f3be35 (HEAD -> master)
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:00:14 2021 +0530

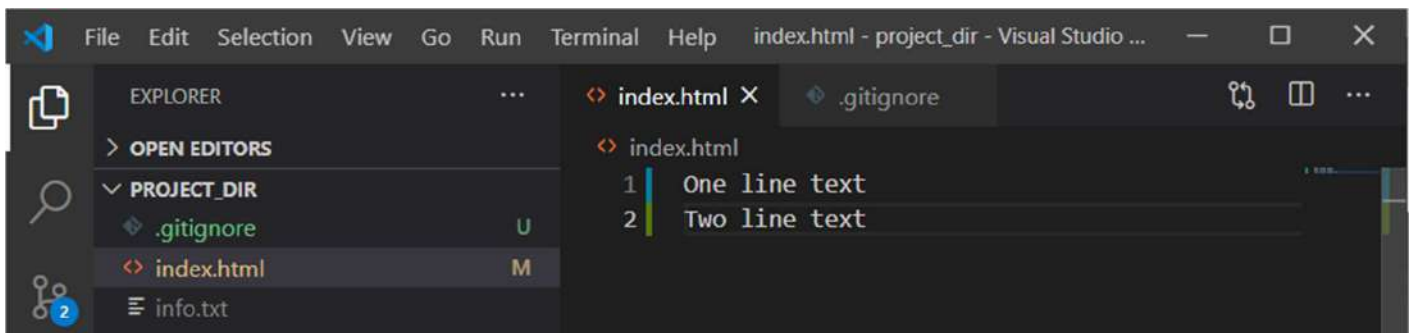
    One line text added in file

commit 950e06151d801962d3769dbe444cfaf4fae1bfe2
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 20:50:12 2021 +0530

    Initial commit

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

13. Make some changes in index.html



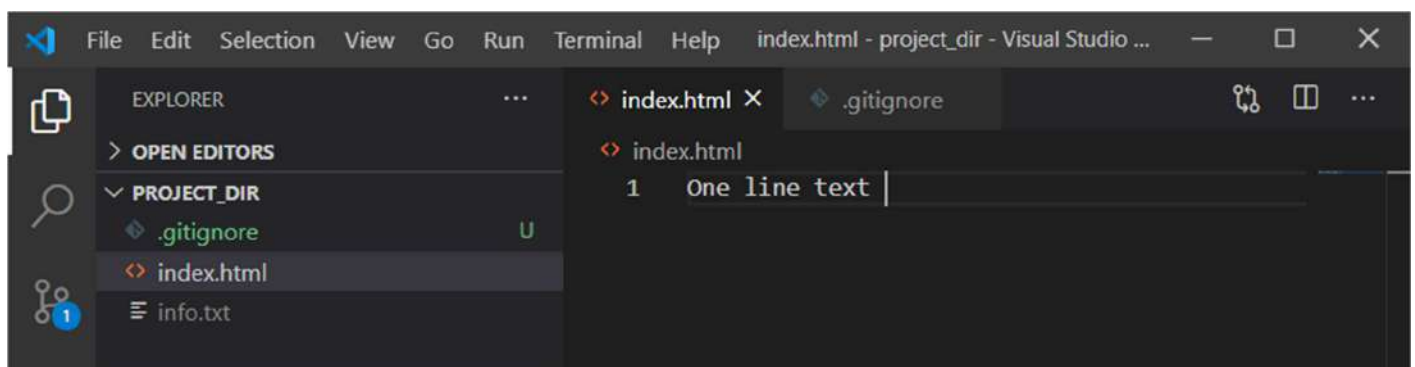
14. Revert the change made in the previous step using git command.



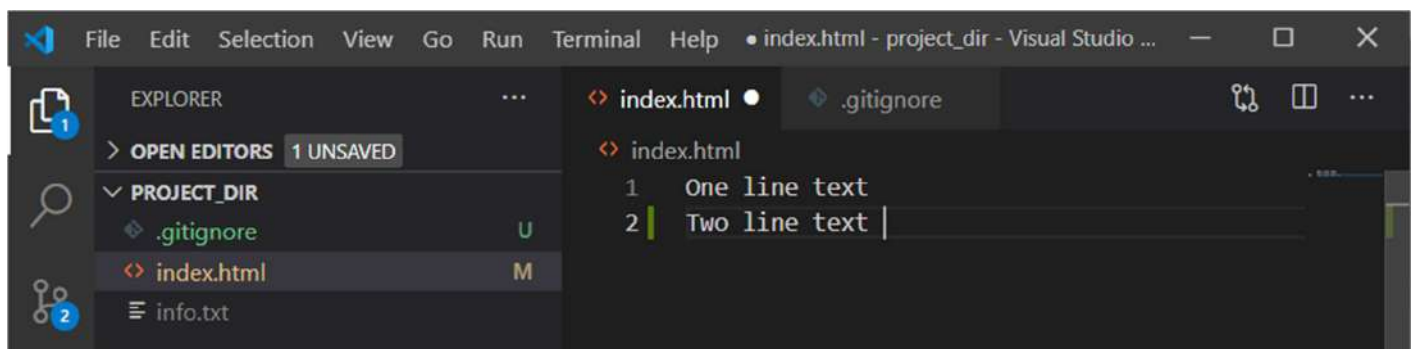
```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git checkout -- .

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ code .

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```



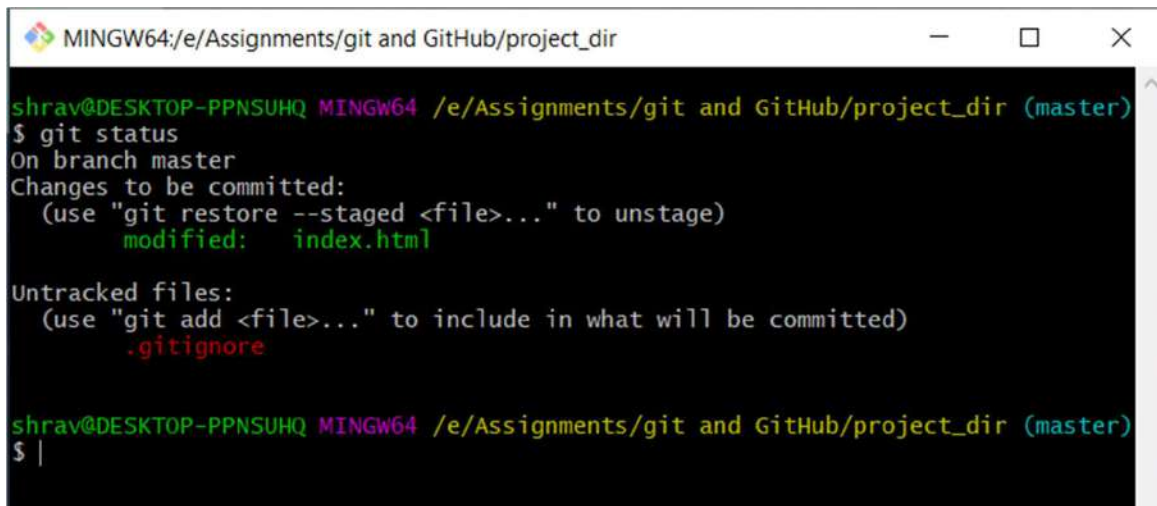
15. Again change index.html



16. Stage index.html

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git add index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

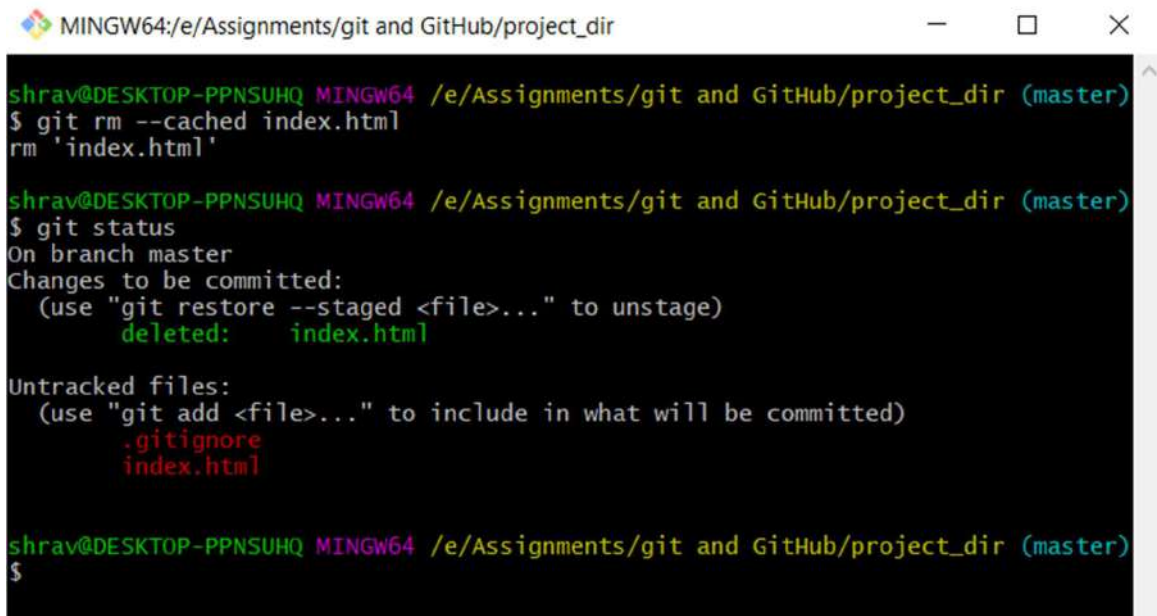
A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir' showing the output of the 'git status' command. The output indicates that 'index.html' is a modified file ready to be committed, and '.gitignore' is an untracked file.

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

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

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

17. Revert back the last stage.

A terminal window titled 'MINGW64:/e/Assignments/git and GitHub/project_dir' showing the execution of 'git rm --cached index.html' followed by 'git status'. The output shows 'index.html' as a deleted file in the staging area, while '.gitignore' remains untracked.

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git rm --cached index.html
rm 'index.html'

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    index.html

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

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

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

```
MINGW64:/e/Assignments Implementation/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/proje
ct_dir (master)
$ git config --global alias.my-add add

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/proje
ct_dir (master)
$
```

19. Using my_add command Stage index.html again & commit the changes.

```
MINGW64:/e/Assignments Implementation/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/proje
ct_dir (master)
$ git my-add index.html

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/proje
ct_dir (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

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

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments Implementation/git and GitHub/proje
ct_dir (master)
$
```

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git commit -m "Two line text in file"
[master ff5745d] Two line text in file
1 file changed, 2 insertions(+), 1 deletion(-)

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
```

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git log
commit ff5745d4502e82c06037cea866e5d49cfd260d89 (HEAD -> master)
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:12:39 2021 +0530

    Two line text in file

commit 0f0819ec324230bd75e503b833958bc791f3be35
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:00:14 2021 +0530

    One line text added in file

commit 950e06151d801962d3769dbe444cfaf4fae1bfe2
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 20:50:12 2021 +0530

    Initial commit

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```


20. Revert the last commit.

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git log
commit ff5745d4502e82c06037cea866e5d49cfd260d89 (HEAD -> master)
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:12:39 2021 +0530

    Two line text in file

commit 0f0819ec324230bd75e503b833958bc791f3be35
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:00:14 2021 +0530

    One line text added in file

commit 950e06151d801962d3769dbe444cfaf4fae1bfe2
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 20:50:12 2021 +0530

    Initial commit

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git reset --hard HEAD~1
HEAD is now at 0f0819e One line text added in file

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git log
commit 0f0819ec324230bd75e503b833958bc791f3be35 (HEAD -> master)
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 21:00:14 2021 +0530

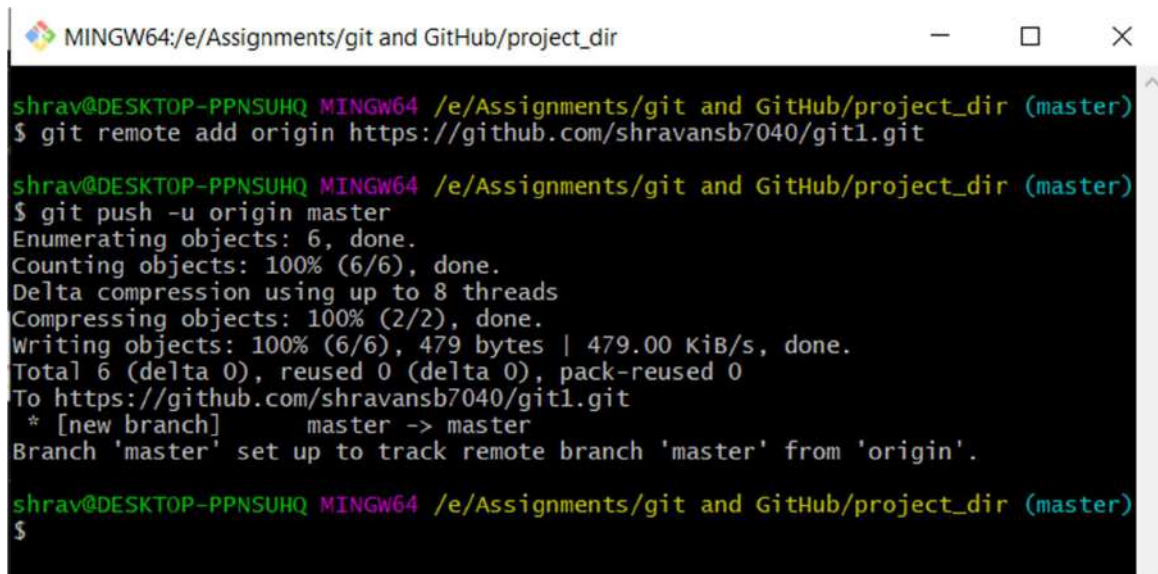
    One line text added in file

commit 950e06151d801962d3769dbe444cfaf4fae1bfe2
Author: Shravan Kumar S Bagewadi <shravansb1234@gmail.com>
Date: Sat Jan 9 20:50:12 2021 +0530

    Initial commit

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ |
```

Remote repository :



```
MINGW64:/e/Assignments/git and GitHub/project_dir
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git remote add origin https://github.com/shravansb7040/git1.git

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 479 bytes | 479.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/shravansb7040/git1.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$
```

GitHub Link :

<https://github.com/shravansb7040/git1>