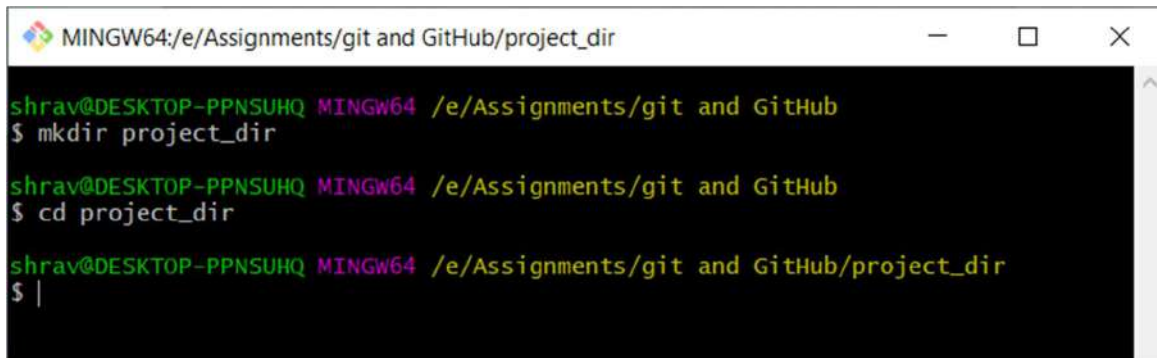Using GIT as local VCS. Steps to follow:
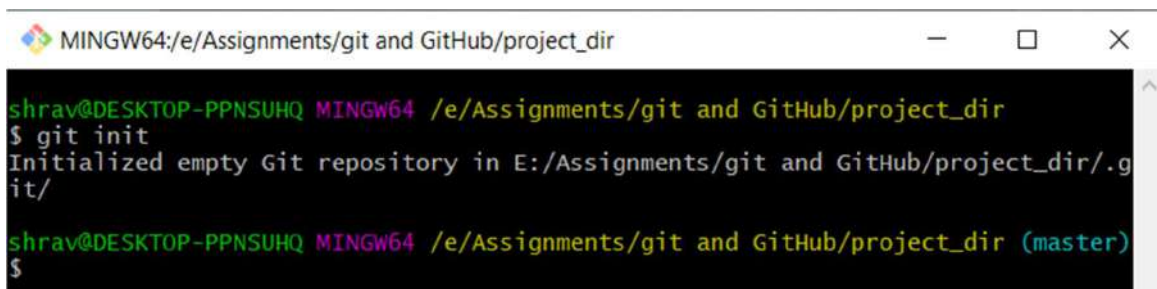
Step :

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

2. Initialize git version database. (git init)

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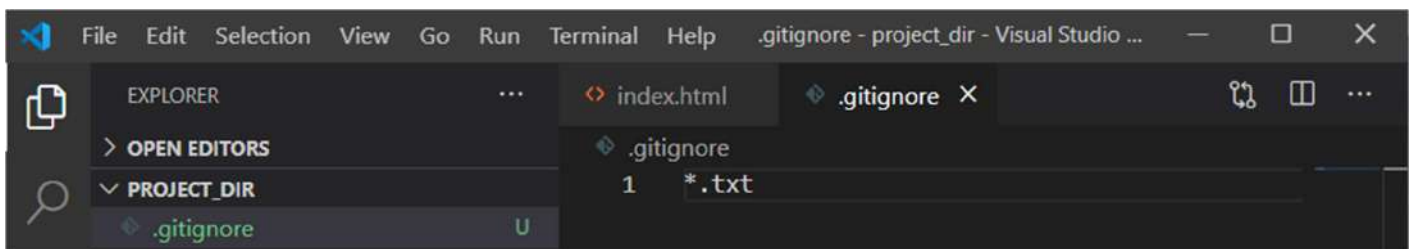
10. Again check the git status. You should find only index.html as untracked file.

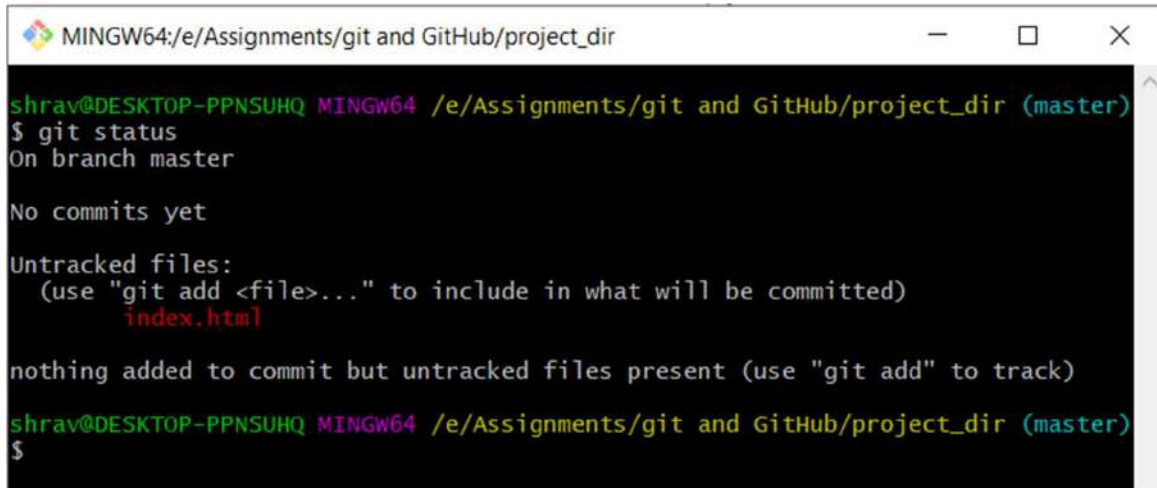11.   State & commit index.html

```
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)
$ |
```
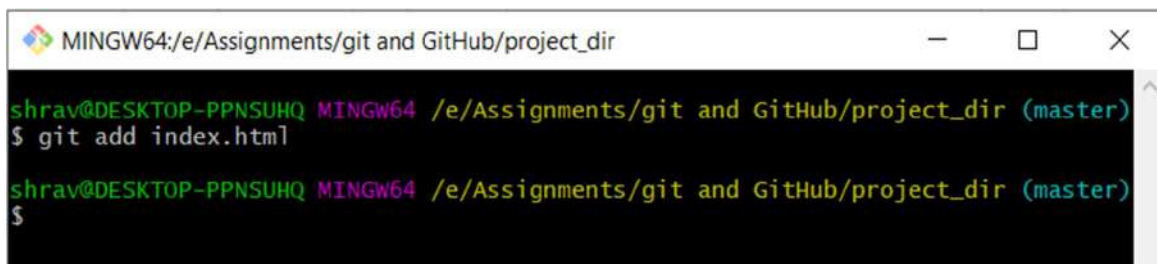
13.   Make some changes in index.html

```
File  Edit  Selection  View  Go  Run  Terminal  Help    index.html - project_dir - Visual Studio ...   —   □   ×

 EXPLORER                    ...      <> index.html ×      .gitignore

> OPEN EDITORS                        <> index.html
∨ PROJECT_DIR                          1 |  One line text
   .gitignore              U           2 |  Two line text
  <> index.html            M
   info.txt
```

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

15.   Again change index.html
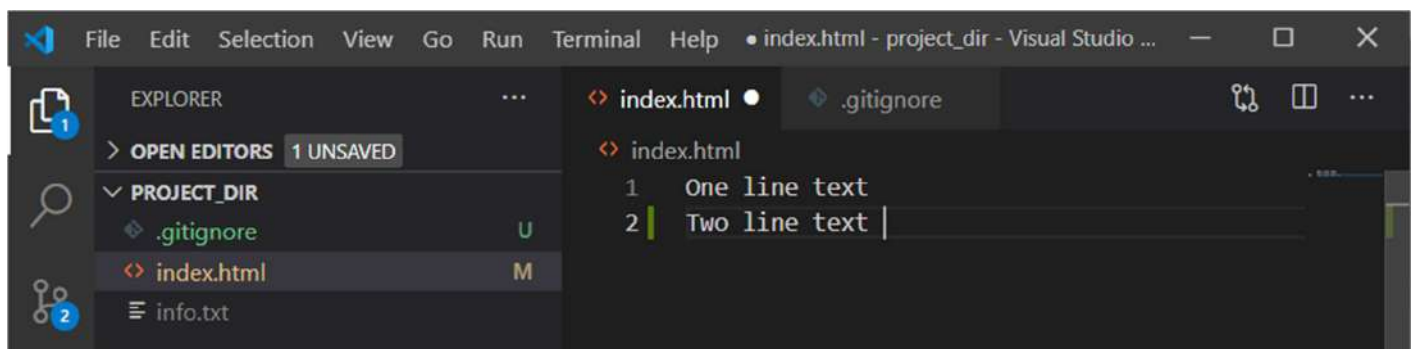
16.   Stage index.html

```
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)
$ |
```
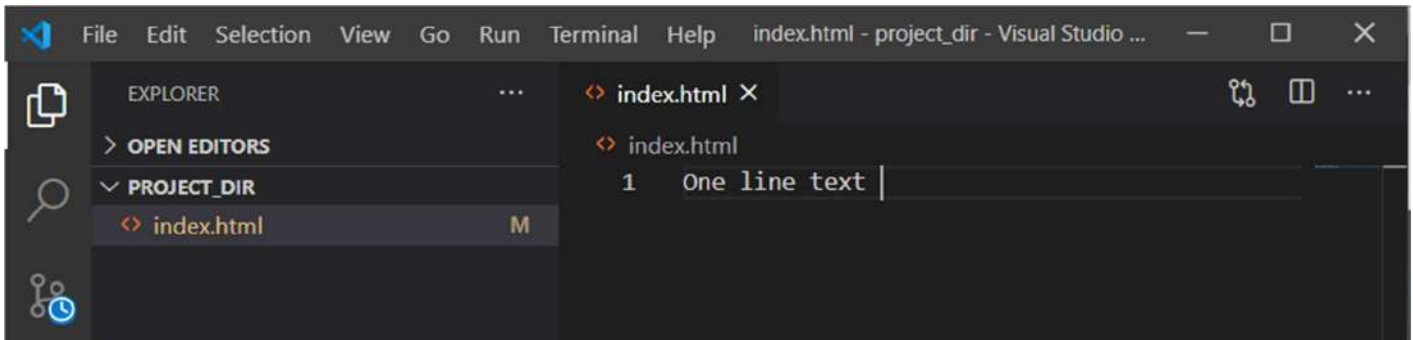
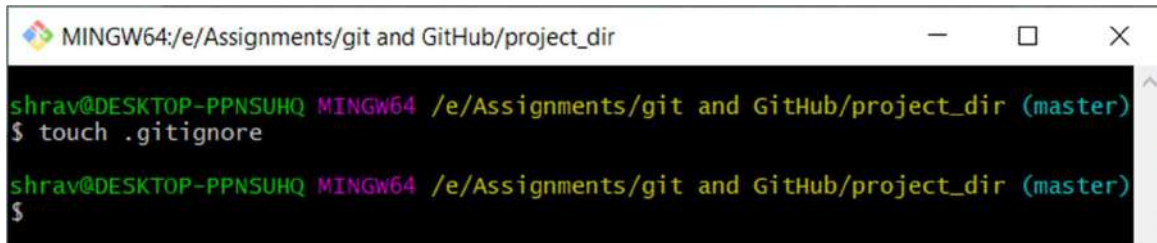MINGW64:/e/Assignments/git and GitHub/project_dir   —   □   ×

```
shrav@DESKTOP-PPNSUHQ MINGW64 /e/Assignments/git and GitHub/project_dir (master)
$ git status
On branch master
Changes 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)
$ |
```
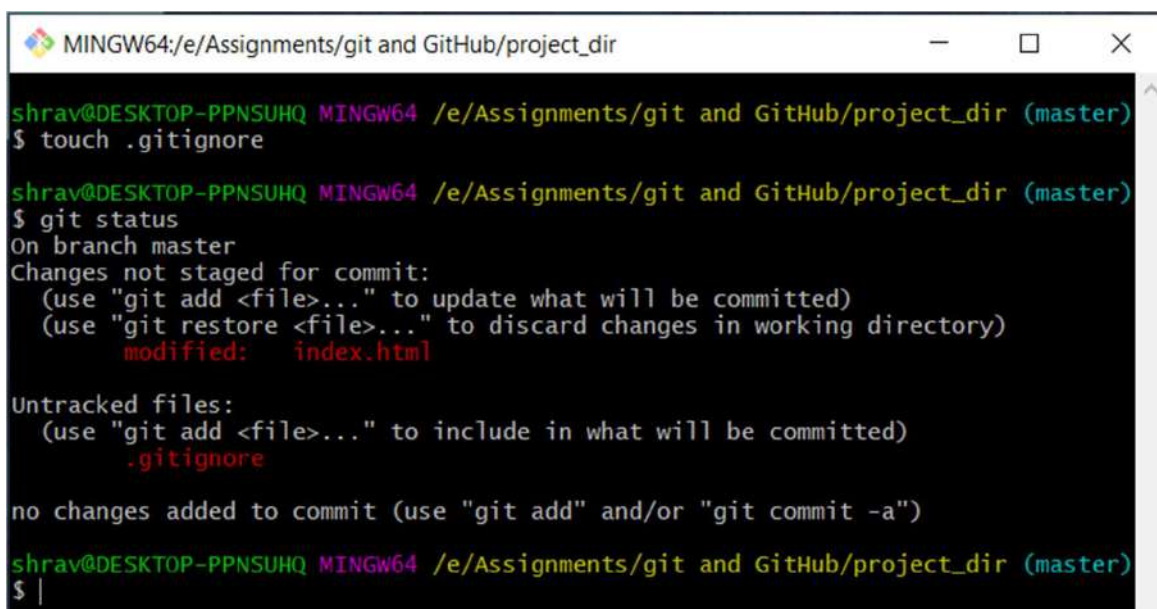
17.   Revert back the last stage.

MINGW64:/e/Assignments/git and GitHub/project_dir   —   □   ×

```
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)
$
```
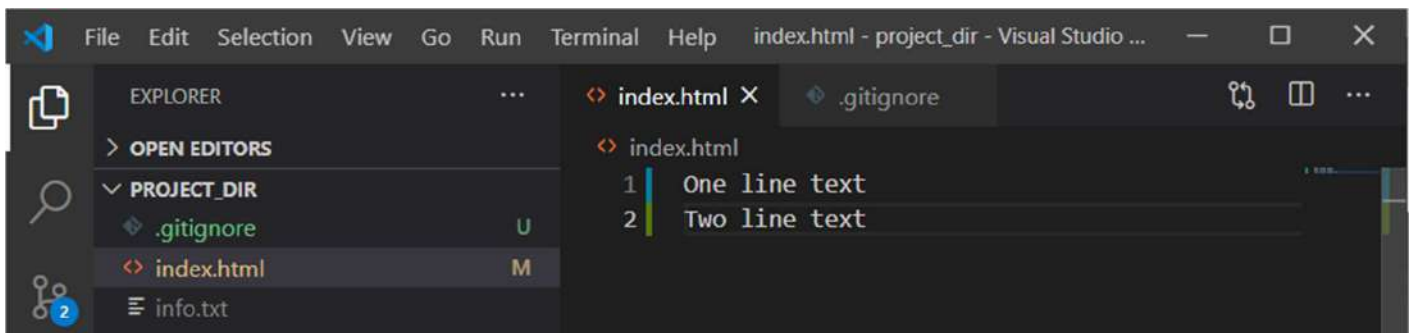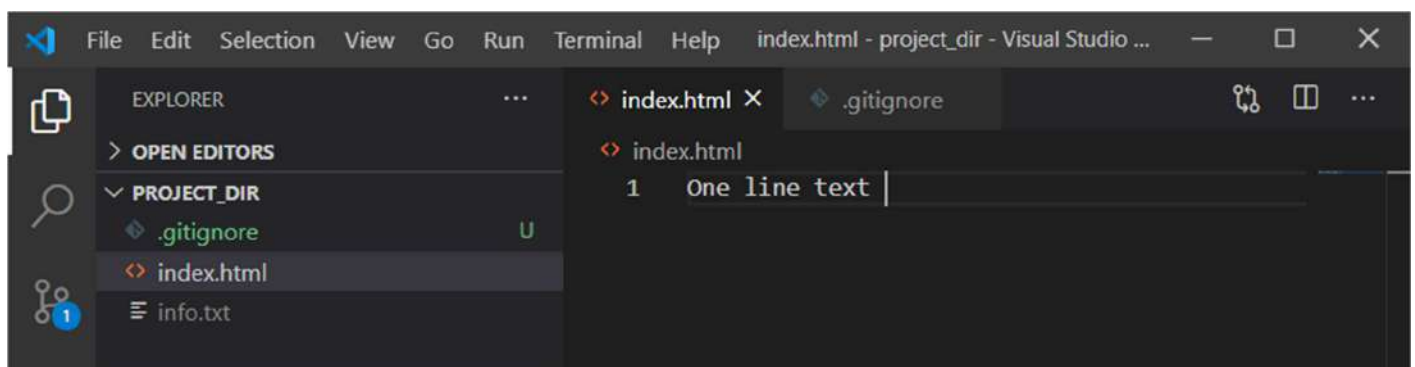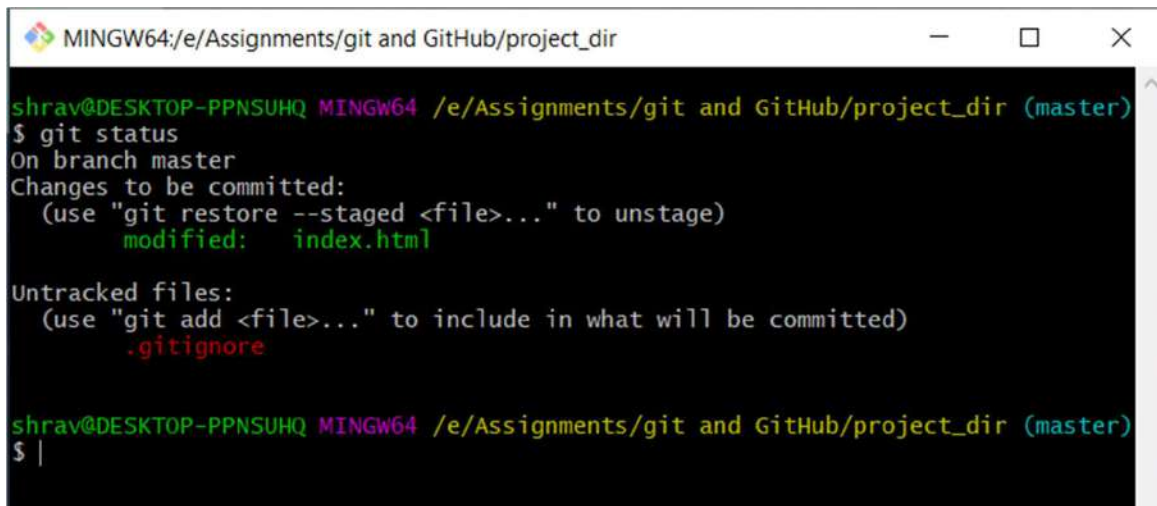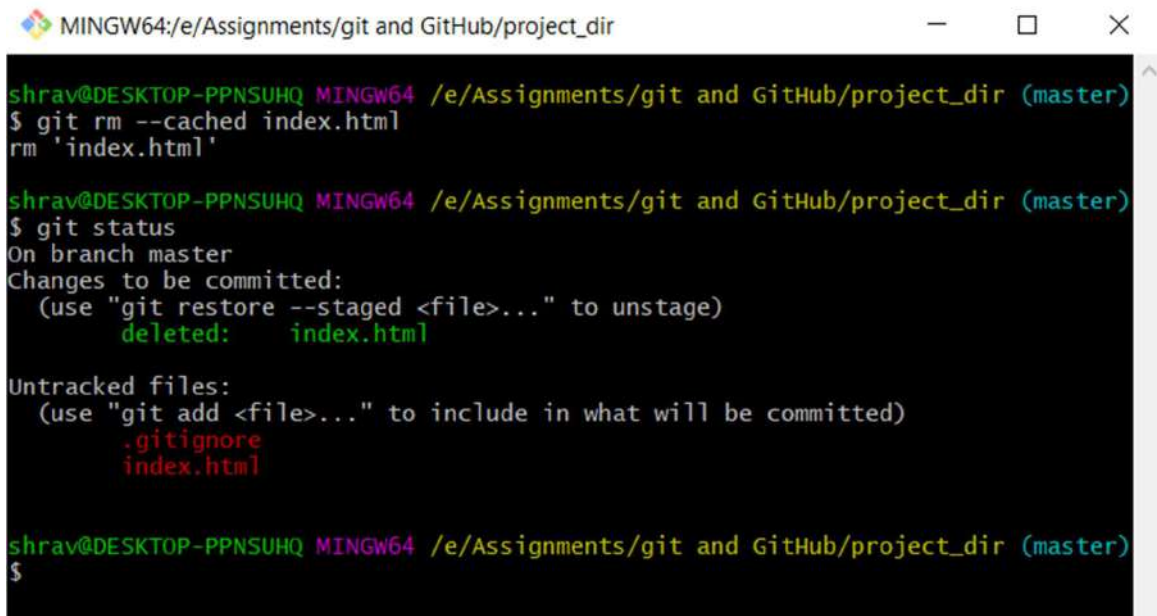
20. Revert the last commit.


```
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)
$
```



```
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)
$
```



```
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)
$ |
```
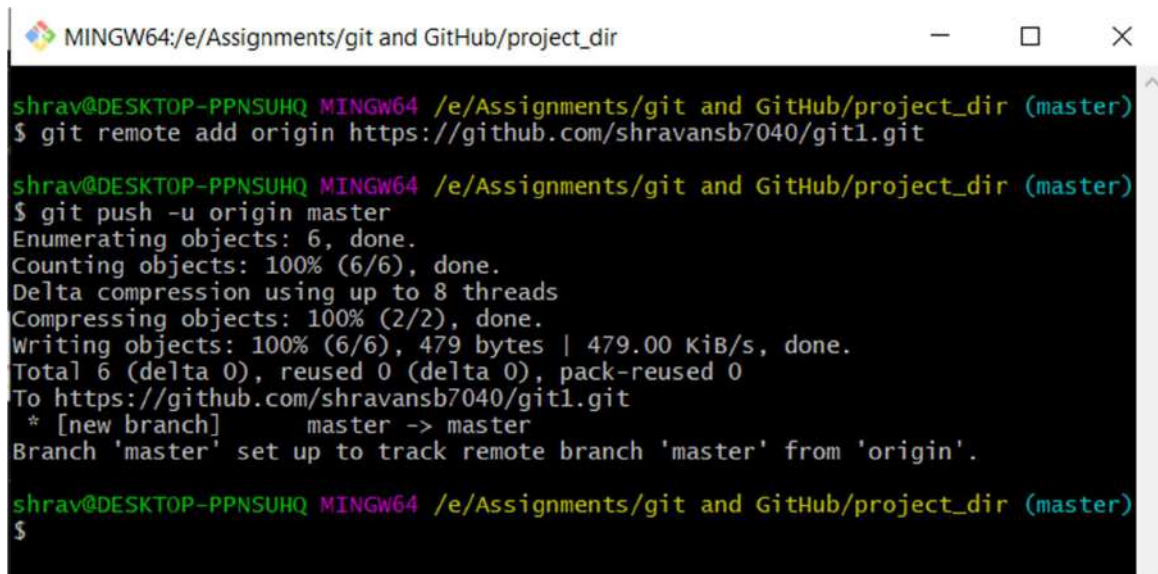
Remote repository :

GitHub Link :
https://github.com/shravansb7040/git1