Name: Nitin Kandikatla

Section 0

1.Create a directory 'project dir' & cd to 'project dir'.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0
$ mkdir project_dir

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0
$ cd project_dir/

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir
$ |
```

2.Initialize git version database. (git init)

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir
$ git init
Initialized empty Git repository in C:/Users/Murlimohan/Section_0/project_dir/.git/

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ |
```

3.Create a new file index.html.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ touch index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ ls
index.html
```

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

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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)
```

5. Stage the index.html file.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git add index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   index.html
```

6. Commit index.html

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git commit -m "Commiting index.html file to local repo"
[master (root-commit) 8bc5dd1] Commiting index.html file to local repo
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git status
On branch master
nothing to commit, working tree clean
```

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

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ nano index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ touch info.txt

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ ls
index.html  info.txt
```

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

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ nano .gitignore

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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")
```

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

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ touch .gitignore

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ ls
index.html  info.txt
```

11. State & commit index.html

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ 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

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git commit -m "added content to index.html file"
[master 22de3d6] added content to index.html file
 1 file changed, 13 insertions(+)
```

12. Log all your comments so far.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git log
commit 22de3d6095d65548475204418afda4cf1e38f7f1 (HEAD -> master)
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sat May 15 17:37:42 2021 +0530

    added content to index.html file

commit 8bc5dd1e7d76d2c45ad249db56e9a1212ff3ca2d
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sat May 15 17:24:33 2021 +0530

    Commiting index.html file to local repo
```

13. Make some changes in index.html.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ nano index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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")
```

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

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git checkout -- index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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)

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ nano index.html
```

15. Again change index.html.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ nano index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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")
```

16. Stage index.html

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git add index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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
```

17. Revert back the last stage.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git restore --staged index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/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")
```

18. Rename add command to 'my-add.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ alias my_add='git add'
```

19. Using my add command Stage index.htmlagain & commit the changes.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ my_add index.html

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git commit -m "Added content 2nd time in index.html file"
[master 57a9c75] Added content 2nd time in index.html file
 1 file changed, 5 insertions(+)
```

20. Revert the last commit.

```
Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git revert dbc1caf5786282238f279ce3876c2f8cd7f26423
[master ba2ab11] Revert "Added content 3rd time"
 1 file changed, 4 insertions(+), 1 deletion(-)

Murlimohan@DESKTOP-9H7SK7N MINGW64 ~/Section_0/project_dir (master)
$ git log
commit ba2ab11784af1c525c5438a196ea6788574f953b (HEAD -> master)
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sun May 16 20:04:56 2021 +0530

    Revert "Added content 3rd time"

    This reverts commit dbc1caf5786282238f279ce3876c2f8cd7f26423.

commit dbc1caf5786282238f279ce3876c2f8cd7f26423
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sun May 16 19:34:00 2021 +0530

    Added content 3rd time

commit 57a9c7506cd82ddb7b98df5a93945a99a42a7685
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sat May 15 18:42:15 2021 +0530

    Added content 2nd time in index.html file

commit 22de3d6095d65548475204418afda4cf1e38f7f1
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sat May 15 17:37:42 2021 +0530

    added content to index.html file

commit 8bc5dd1e7d76d2c45ad249db56e9a1212ff3ca2d
Author: nitinkandikatla <nitinkandikatla99@gmail.com>
Date:   Sat May 15 17:24:33 2021 +0530

    Commiting index.html file to local repo
```