Install GIT & make sure it is added into PATH.

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 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

```
Admin8DESKTOP-07H2PR9 MINGW64 ~ (master)
$ mkdir project_dr

Admin8DESKTOP-07H2PR9 MINGW64 ~ (master)
$ cd project_dir/

Admin8DESKTOP-07H2PR9 MINGW64 ~ (master)
$ git init
Initialized empty Git repository in C:/Users/Admin/project_dir/.git/
Admin8DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ jt init
Initialized empty Git repository in C:/Users/Admin/project_dir/.git/
Admin8DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ touch index.html

Admin8DESKTOP-07H2PR9 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)

Admin8DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git add index.html
```

```
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)

$ git commit -m 'index.html committed as step 6'
[master (root-commit) a3f3bc4] index.html committed as step 6

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index.html

Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)

$
```

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:/c/Users/Admin/project_dir

```
dmin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ touch .gitignore
Admin@DESKTOP-07H2PR9 MINGW64 ~/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)
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git add index.html
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git commit -m 'index.html commited'
[master 1472179] index.html committed
1 file changed, 1 insertion(+)
```

- 12. State & commit index.html
- 13. Log all your comments so far.
- 14. Make some changes in index.html.Revert the change made in the previous step using git command.

```
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git log
commit 1472179f5ac18aef4e38ec7f9de78e0e1fcce7a0 (HEAD -> master)
Author: Smrti <smrtisandilya14@gmail.com>
Date: Fri Oct 22 15:44:15 2021 +0530
    index.html committed
commit b653e48f666c85e67383d58886fb1f3c3a52fc62
Author: Smrti <smrtisandilya14@gmail.com>
Date: Fri Oct 22 15:29:15 2021 +0530
    changes made info.txt
commit 9b2feb352ae108380919af82a37a69adbc51a645
Author: Smrti <smrtisandilya14@gmail.com>
Date: Fri Oct 22 15:20:29 2021 +0530
    index.html committed as step 6
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git checkout
       index.html
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git checkout --.
```

13.

```
EXPLORER

NO FOLDER OPENED

C: > Users > Admin > project_dir > ↔ index.html > ...

> OUTLINE

TIMELINE index.html

↑ index.html committed Smrti 44 mins

† index.html committed Smrti 1 hr

† index.html committed as step 6...
```

```
> NO FOLDER OPENED
> OUTLINE

V TIMELINE index.html commited Smrti 55 mins
$\delta$ index.html commited Smrti 1 hr
$\delta$ index.html commited as step ... 1 hr
$\delta$ index.html commited Smrti 2 hr
$\delta$ index.html committed Smrti 2 hr
$\delta$ index.html commited Smrti 2 hr
$\delta$ index.html commited Smrti 2 hr
$\delta$ index.html co
```

15. Again change index.html.

```
> NO FOLDER OPENED

> OUTLINE

TIMELINE index.html committed Smrti 55 mins

| index.html committed Smrti 1 hr
| index.html committed as step ... 1 hr
| index.html committed index.html committed in the committed in the
```

- 16.Stage index.html
- 17. Revert back the last stage.
- 18. Rename 'add' command to 'my-add'.

```
$ git add index.html
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git revert HEAD index.html
fatal: bad revision 'index.html'
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git reset HEAD index.html
Unstaged changes after reset:
        index.html
Admin@DE5KTOP-07H2PR9 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 add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
Untracked files:
 (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
Admin@DESKTOP-07H2PR9 MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add
```

- 19. Using my_add command Stage index.html again & commit the changes.
 - 20.Revert the last commit.

```
Admin@DESKTOP-O7H2PR9 MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add

Admin@DESKTOP-O7H2PR9 MINGW64 ~/project_dir (master)
$ git my-add index.html

Admin@DESKTOP-O7H2PR9 MINGW64 ~/project_dir (master)
$ git commit -m 'index.html commited'
[master ec92c66] index.html commited

1 file changed, 17 insertions(+), 1 deletion(-)
rewrite index.html (100%)

Admin@DESKTOP-O7H2PR9 MINGW64 ~/project_dir (master)
$ git log
commit ec92c66233b8a610ae47c198f5f965e8a49fcf6e (HEAD -> master)
Author: Smrti <smrtisandilyal4@gmail.com>
Date: Fri Oct 22 16:06:22 2021 +0530

index.html commited

commit 1472179f5ac18aef4e38ec7f9de78e0elfcce7a0
Author: Smrti <smrtisandilyal4@gmail.com>
Date: Fri Oct 22 15:44:15 2021 +0530

index.html commited

commit b653e48f666c85e67383d58886fblf3c3a52fc62
Author: Smrti <smrtisandilyal4@gmail.com>
Date: Fri Oct 22 15:29:15 2021 +0530

changes made info.txt

commit 9b2feb352ae108380919af82a37a69adbc51a645
Author: Smrti <smrtisandilyal4@gmail.com>
Date: Fri Oct 22 15:20:29 2021 +0530

index.html commited as step 6

Admin@DESKTOP-O7H2PR9 MINGW64 ~/project_dir (master)
$ git commit -m 'index.html commited'
```