

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

```
anila@LAPTOP-4TD4DA8U MINGW64 ~
$ mkdir project_dir

anila@LAPTOP-4TD4DA8U MINGW64 ~
$ cd project_dir/

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/anila/project_dir/.git/

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ touch index.html

anila@LAPTOP-4TD4DA8U 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"
totrack)

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git add index.html

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git commit -m 'index.html committed'
[master (root-commit) 39be112] index.html committed
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.
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

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ touch info.txt

anila@LAPTOP-4TD4DA8U 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 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")

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ touch .gitignore

anila@LAPTOP-4TD4DA8U 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 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")

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git add index.html

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git commit -m 'index.html committed as 11'
[master e290e85] index.html committed as 11
1 file changed, 16 insertions(+)
```

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

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git log
commit e290e85b137361e187ab3486beda7aacf6e15ae0 (HEAD -> master)
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:42:51 2021 +0530
```

index.html committed as 11

```
commit 527145aed00a0f0d9a4bbc7529592176b8d6885a
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:38:03 2021 +0530
```

index.html committed

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git checkout --.
```

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

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git add index.html
```

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git revert HEAD index.html
fatal: bad revision 'index.html'
```

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git reset HEAD index.html
Unstaged changes after reset:
M    index.html
```

```
anila@LAPTOP-4TD4DA8U 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 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")

```
anila@LAPTOP-4TD4DA8U 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.

```
anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git my-add index.html

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git commit -m 'index.html committed according to steps'
[master be803b0] index.html committed according to steps
1 file changed, 1 insertion(+)

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git log
commit be803b030d75e21ac0d045a4957d4fa6cf098c92 (HEAD -> master)
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 20:41:04 2021 +0530

    index.html committed according to steps

commit e290e85b137361e187ab3486beda7aacf6e15ae0
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:42:51 2021 +0530

    index.html committed as 11

commit 527145aed00a0f0d9a4bbc7529592176b8d6885a
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:38:03 2021 +0530

    index.html committed

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git reset --soft HEAD^

anila@LAPTOP-4TD4DA8U MINGW64 ~/project_dir (master)
$ git log
commit e290e85b137361e187ab3486beda7aacf6e15ae0 (HEAD -> master)
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:42:51 2021 +0530

    index.html committed as 11

commit 527145aed00a0f0d9a4bbc7529592176b8d6885a
Author: AnilMarukurti <anilak3011@gmail.com>
Date: Thu Oct 21 18:38:03 2021 +0530

    index.html committed
```