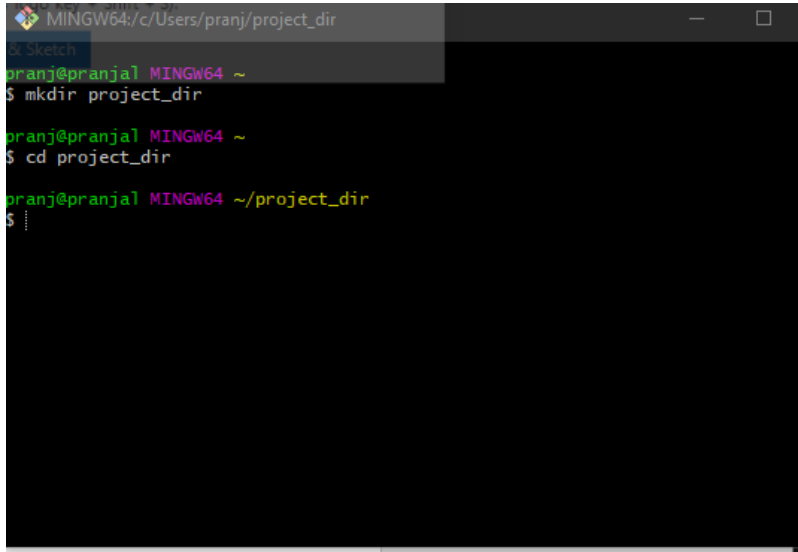


Section 0 -Use GIT as local VCS. Steps to follow:

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

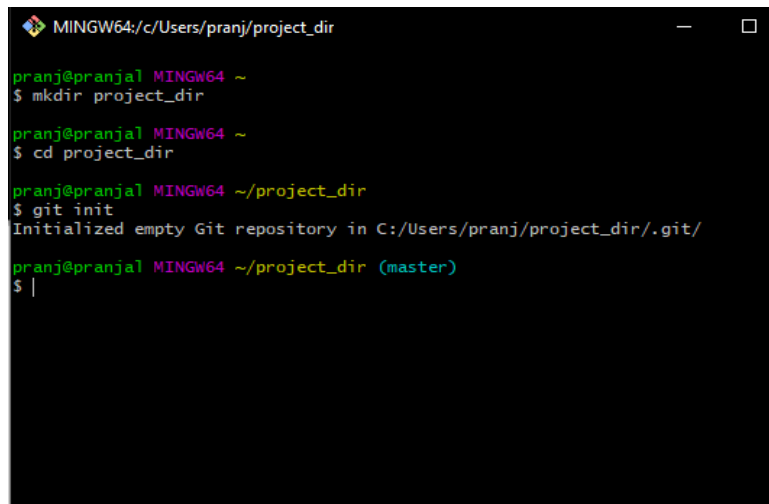
A terminal window titled 'MINGW64:/c/Users/pranj/project_dir' showing the execution of 'mkdir project_dir' and 'cd project_dir' commands. The prompt changes from '~' to '~/project_dir' after the second command.

```
MINGW64:/c/Users/pranj/project_dir
pranj@pranja1 MINGW64 ~
$ mkdir project_dir

pranj@pranja1 MINGW64 ~
$ cd project_dir

pranj@pranja1 MINGW64 ~/project_dir
$ |
```

2. Initialize git version database. (git init)

A terminal window titled 'MINGW64:/c/Users/pranj/project_dir' showing the execution of 'git init'. The output message indicates that an empty Git repository has been initialized in the current directory.

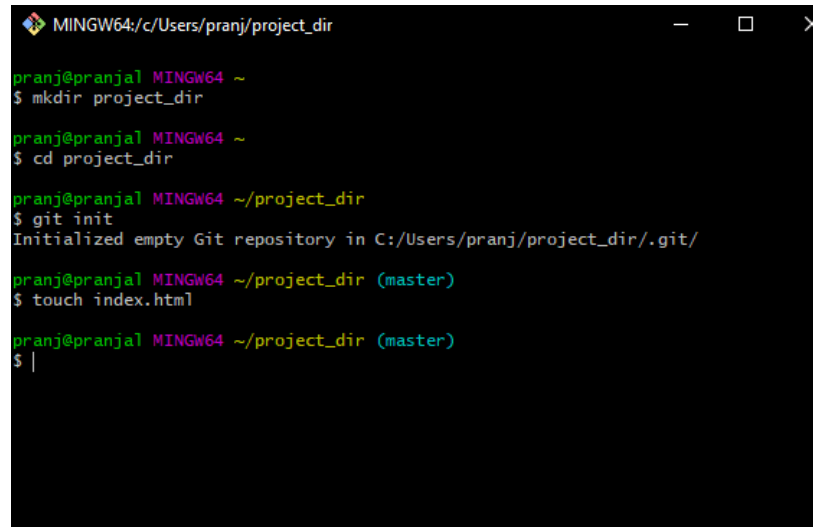
```
MINGW64:/c/Users/pranj/project_dir
pranj@pranja1 MINGW64 ~
$ mkdir project_dir

pranj@pranja1 MINGW64 ~
$ cd project_dir

pranj@pranja1 MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/pranj/project_dir/.git/

pranj@pranja1 MINGW64 ~/project_dir (master)
$ |
```

3. Create a new file index.html.



```
MINGW64:/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~
$ mkdir project_dir

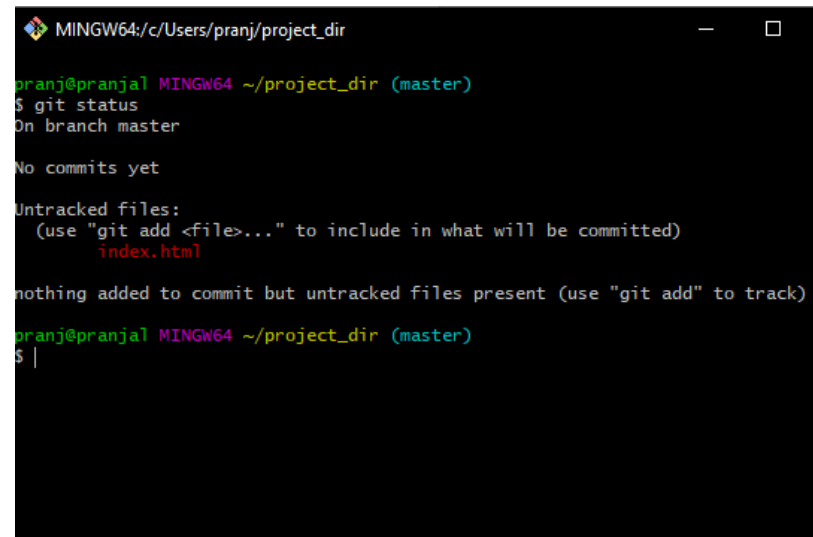
pranj@pranjal MINGW64 ~
$ cd project_dir

pranj@pranjal MINGW64 ~/project_dir
$ git init
Initialized empty Git repository in C:/Users/pranj/project_dir/.git/

pranj@pranjal MINGW64 ~/project_dir (master)
$ touch index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

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



```
MINGW64:/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master

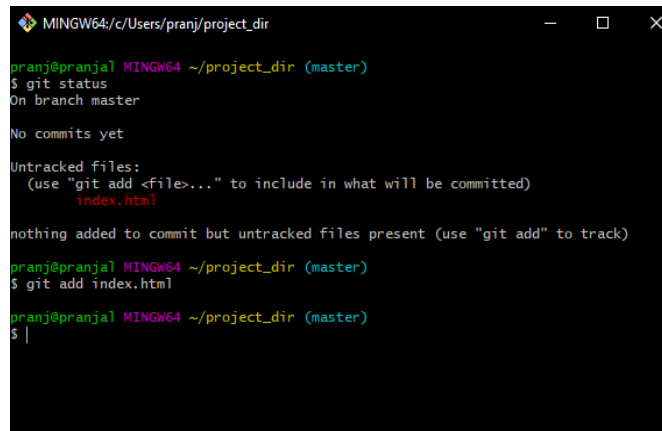
No commits yet

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)

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

5. Stage the index.html file.



```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master

No commits yet

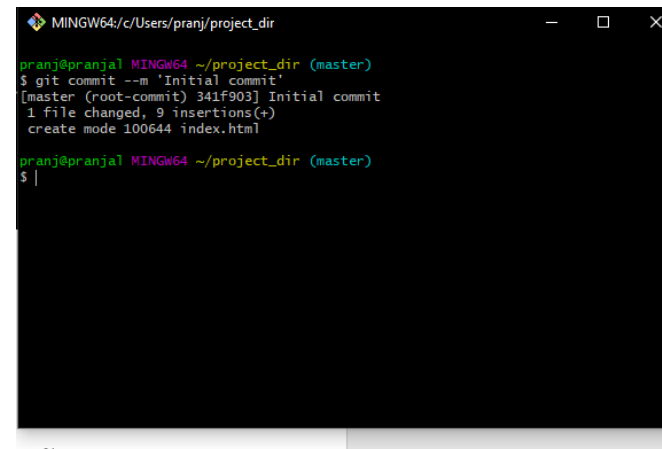
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)

pranj@pranjal MINGW64 ~/project_dir (master)
$ git add index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

6. Commit index.html

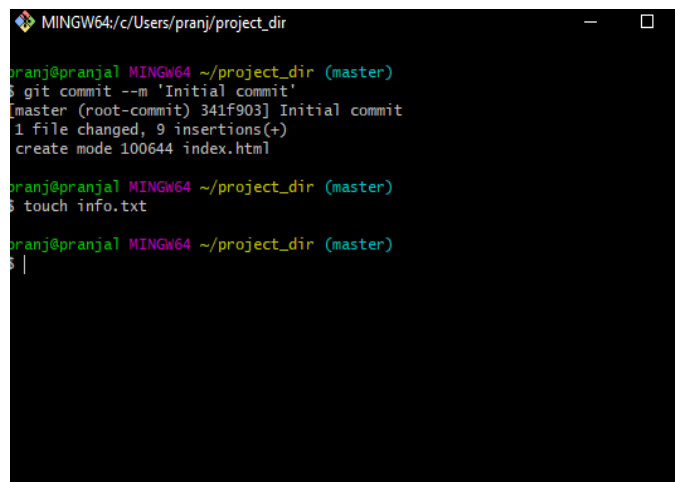


```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git commit --m 'Initial commit'
[master (root-commit) 341f903] Initial commit
1 file changed, 9 insertions(+)
create mode 100644 index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

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



```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git commit --m 'Initial commit'
[master (root-commit) 341f903] Initial commit
1 file changed, 9 insertions(+)
create mode 100644 index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ touch info.txt

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

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

```
MINGW64/c/Users/pranj/project_dir
$ git commit --m 'Initial commit'
[master (root-commit) 341f903] Initial commit
1 file changed, 9 insertions(+)
create mode 100644 index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ touch info.txt

pranj@pranjal 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")

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

9. Configure GIT to ignore all txt files.

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

```
MINGW64/c/Users/pranj/project_dir

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

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

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

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

11. State & commit index.html

```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git add .

pranj@pranjal MINGW64 ~/project_dir (master)
$ git commit -m 'changes after ignoring txt files'
[master 985c3f6] changes after ignoring txt files
 2 files changed, 4 insertions(+), 2 deletions(-)
 create mode 100644 .gitignore

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

12. Log all your comments so far.

```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git log
commit 985c3f64e0824131268a8c75e66b65d6c3dd93c4 (HEAD -> master)
Author: Pranjal Dongre <pranjaldongre33@gmail.com>
Date: Thu Oct 21 14:46:18 2021 +0530

    changes after ignoring txt files

commit 341f9034347a191dadacbf14e3afb43d5026ed78
Author: Pranjal Dongre <pranjaldongre33@gmail.com>
Date: Thu Oct 21 14:30:57 2021 +0530

    Initial commit

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

13. Make some changes in index.html.

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

```
MINGW64/c/Users/pranj/project_dir

pranj@pranjal 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

no changes added to commit (use "git add" and/or "git commit -a")

pranj@pranjal MINGW64 ~/project_dir (master)
$ git restore index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

15. Again change index.html.
16. Stage index.html
17. Revert back the last stage.

```
MINGW64/c/Users/pranj/project_dir

pranj@pranja MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

pranj@pranja MINGW64 ~/project_dir (master)
$ git restore --staged index.html

pranj@pranja 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

no changes added to commit (use "git add" and/or "git commit -a")
pranj@pranja MINGW64 ~/project_dir (master)
$ |
```

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

```
MINGW64/c/Users/pranj/project_dir

pranj@pranja MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add

pranj@pranja MINGW64 ~/project_dir (master)
$ git my-add index.html

pranj@pranja MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

pranj@pranja MINGW64 ~/project_dir (master)
$ |
```

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

```
MINGW64:/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git config --global alias.my-add add

pranj@pranjal MINGW64 ~/project_dir (master)
$ git my-add index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   index.html

pranj@pranjal MINGW64 ~/project_dir (master)
$ git commit -m 'changes made after renaming add cmd'
[master 4e78484] changes made after renaming add cmd
 1 file changed, 1 insertion(+)

pranj@pranjal MINGW64 ~/project_dir (master)
$ |
```

20. Revert the last commit.

```
MINGW64:/c/Users/pranj/project_dir

pranj@pranjal MINGW64 ~/project_dir (master)
$ git commit -m 'changes made after renaming add cmd'
[master 4e78484] changes made after renaming add cmd
 1 file changed, 1 insertion(+)

pranj@pranjal MINGW64 ~/project_dir (master)
$

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master
nothing to commit, working tree clean

pranj@pranjal MINGW64 ~/project_dir (master)
$ git status
On branch master
nothing to commit, working tree clean

pranj@pranjal MINGW64 ~/project_dir (master)
$ git reset HEAD~1
Unstaged changes after reset:
M   index.html
```

