

Git Assignment

Install GIT & make sure it is added into PATH.

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
 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
 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.
 15. Again change index.html.
 16. Stage index.html
 17. Revert back the last stage.
 18. Rename 'add' command to 'my-add'.
 19. Using my_add command Stage index.html again & commit the changes.
 20. Revert the last commit.
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MINGW64:/c/Users/Abhishek Ojha/project_dir

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~ (master)
$ mkdir project_dir

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~ (master)
$ cd project_dir

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git init
Initialized empty Git repository in C:/Users/Abhishek Ojha/project_dir/.git/

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ touch index.html

Abhishek Ojha@DESKTOP-98NTP40 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)

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git add index.html

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git commit -m "first commit"
[master (root-commit) 6bad20f] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ touch info.txt

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ touch .gitignore

Abhishek Ojha@DESKTOP-98NTP40 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")

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git add index.html
```



Type here to search



MINGW64:/c/Users/Abhishek Ojha/project_dir

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git add index.html
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git commit -m "second commit"
[master c84cee7] second commit
1 file changed, 1 insertion(+)
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git log
commit c84cee7e6fe22de1ec1aaa5e41d54b81969b817a (HEAD -> master)
Author: abhishekojha039 <abhishekojha039@gmail>
Date: Sun Jan 10 15:29:03 2021 +0530
```

second commit

```
commit 6bad20f520ec664dd36ccb84a1935e607249069f
Author: abhishekojha039 <abhishekojha039@gmail>
Date: Sun Jan 10 15:15:41 2021 +0530
```

first commit

```
Abhishek Ojha@DESKTOP-98NTP40 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")

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git checkout -- index.html
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git add index.html
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git rm --cached index.html
rm 'index.html'
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git config --global alias.myadd 'add'
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git myadd index.html
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git commit -m "third commit"
[master 2842bc8] third commit
1 file changed, 4 insertions(+), 1 deletion(-)
```

```
Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
```

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MINGW64:/c/Users/Abhishek Ojha/project_dir

```
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")

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git checkout -- index.html

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git add index.html

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git rm --cached index.html
rm 'index.html'

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git config --global alias.myadd 'add'

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git myadd index.html

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git commit -m "third commit"
[master 2842bc8] third commit
1 file changed, 4 insertions(+), 1 deletion(-)

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/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)

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ git reset --soft HEAD~1

Abhishek Ojha@DESKTOP-98NTP40 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)
        .gitignore

Abhishek Ojha@DESKTOP-98NTP40 MINGW64 ~/project_dir (master)
$ |
```

