

Git and GitHub 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

```
MINGW64:/c:/Users/gangw/OneDrive/Desktop/project_dir

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop
$ mkdir project_dir

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop
$ cd project_dir

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir
$ git init
Initialized empty Git repository in C:/Users/gangw/OneDrive/Desktop/project_dir/.git/

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git add index.html
fatal: pathspec 'index.html' did not match any files

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git commit-m"commitng index file"
git: 'commit-mcommitng index file' is not a git command. See 'git --help'.

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ touch info.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$
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```
MINGW64:/c/Users/gangw/OneDrive/Desktop/project_dir
No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git add index.html
fatal: pathspec 'index.html' did not match any files

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git commit-m"commitng index file"
git: 'commit-mcommitng index file' is not a git command. See 'git --help'.

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ touch info.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ vi index.html

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ touch info.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/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
    info.txt

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



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```
MINGW64:/c/Users/gangw/OneDrive/Desktop/project_dir
index.html
info.txt

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ vi.gitignore
bash: vi.gitignore: command not found

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/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
      info.txt

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ vi .gitignore

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

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

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ |
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```
MINGW64:/c/Users/gangw/OneDrive/Desktop/project_dir

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ vi .gitignore

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git status
On branch master

No commits yet

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

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git add index.html

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/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

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git reset

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ alias my_add='git add'

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ my_add index.html
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MINGW64:/c/Users/gangw/OneDrive/Desktop/project_dir

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ alias my_add='git add'
```

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ my_add index.html
```

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/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
```

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

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git commit-m'committing after changing add to my_add'
git: 'commit-mcommitting after changing add to my_add' is not a git command. See 'git --help'.
```

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/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
```

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

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ git log
fatal: your current branch 'master' does not have any commits yet
```

```
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ |
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GIT Branching

Objective: Commit HTML, CSS & JavaScript assignments into GIT.

SECTION-1 (HTML assignments) - Steps to follow:

21. First take a backup of your assignments & projects. This is required because due to incorrect GIT operation you may lose your files.
22. Create an empty directory 'Assignments' & cd to 'Assignments'.
23. Create a file README.txt inside 'Assignments' & write few lines about the contents of 'Assignments' folder.
24. Commit README.txt file.
25. Now create a new branch 'html-assignments'.
26. Switch to 'html-assignments' branch.
27. Copy all HTML assignments inside 'Assignments' folder.
28. Commit HTML assignments into 'html-assignments' branch.
29. Make minor changes into few files belonging to 'html-assignments' branch.
30. Commit those changed files.
31. Switch to master branch.
32. Make minor changes into README.txt file & commit those changes into master.
33. Again switch to 'html-assignments' branch.
34. Make minor changes into few files belonging to 'html-assignments' branch.
35. Commit those changes.
36. Switch to master.
37. Merge 'html-assignments' branch into master. Confirm all html assignments are shown in master.
38. Finally delete the 'html-assignments' branch


```
MINGW64/c/Users/gangw/OneDrive/Desktop/project_dir/assignments
gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ mkdir assignments

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir (master)
$ cd assignments

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git init
Initialized empty Git repository in C:/Users/gangw/OneDrive/Desktop/project_dir/assignments/.git/

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ touch readme.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git add
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'
hint: Turn this message off by running
hint: "git config advice.addEmptyPaths false"

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git add .

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   readme.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git commit-m"committing readme.txt"
git: 'commit-mcommitting readme.txt' is not a git command. See 'git --help'.

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git commit-m"committing readme.txt"
git: 'commit-mcommitting readme.txt' is not a git command. See 'git --help'.

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/OneDrive/Desktop/project_dir/assignments (master)
$ git commit -m"committing README.txt"
Author identity unknown

*** Please tell me who you are.
```

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SECTION-3 - (JavaScript assignments) Steps to follow:

1. Create a new branch 'js-assignments'.
2. Switch to 'js-assignments' branch.
3. Copy all JavaScript assignments inside 'Assignments' folder.
4. Commit JavaScript assignments into 'js-assignments' branch.
5. Make minor changes into README.txt file on line 1 belonging to 'js-assignments' branch.
6. Commit those changed files.
7. Switch to master branch.
8. Make minor changes into README.txt file on line 1 & commit those changes into master.
9. Again switch to 'js-assignments' branch.
10. Make minor changes into few files belonging to 'js-assignments' branch.
11. Commit those changes.
12. Switch to master.
13. Merge 'js-assignments' branch into master. Confirm all JavaScript assignments are shown in master.
14. Finally delete the 'js-assignments' branch

```

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git add README.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git commit -m"committing readme file of master branch"
On branch js-assignments
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git commit -m"commit change"
On branch js-assignments
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ vim README.txt

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git status
On branch js-assignments
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:   README.txt

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

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git commit -m"committing minor changes in js file"
On branch js-assignments
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:   README.txt

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

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

gangw@LAPTOP-GC6VAJ08 MINGW64 ~/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'
M       README.txt

```