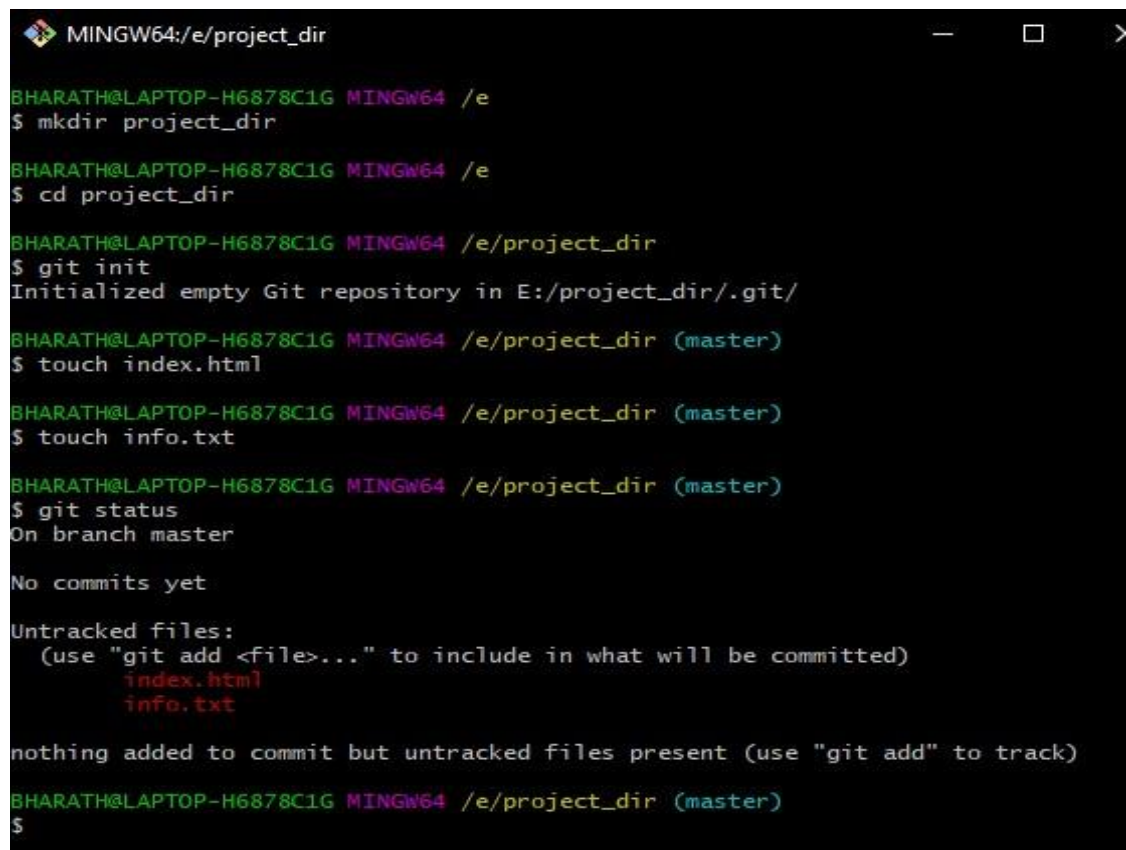


Section 0 -Use GIT as local VCS. Steps to follow:

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
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.

A screenshot of a Windows terminal window titled 'MINGW64:/e/project_dir'. The terminal shows the following commands and output:

```
BHARATH@LAPTOP-H6878C1G MINGW64 /e
$ mkdir project_dir

BHARATH@LAPTOP-H6878C1G MINGW64 /e
$ cd project_dir

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir
$ git init
Initialized empty Git repository in E:/project_dir/.git/

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ touch index.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ touch info.txt

BHARATH@LAPTOP-H6878C1G MINGW64 /e/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)

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$
```

```
MINGW64:/e/project_dir
BHARATH@LAPTOP-H6878C1G MINGW64 /e/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)

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ mv *.txt .gitignore

BHARATH@LAPTOP-H6878C1G MINGW64 /e/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

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git add index.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git commit index.html -m "index file is committed"
[master (root-commit) 626e337] index file is committed
1 file changed, 6 insertions(+)
 create mode 100644 index.html
```

```

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git log
commit 626e337b73ffcbd7e9e3d7cdb8524fec743ca4e0 (HEAD -> master)
Author: Bharath <userbharath@gmail.com>
Date:   Fri Oct 22 06:34:42 2021 +0530

    index file is committed

BHARATH@LAPTOP-H6878C1G MINGW64 /e/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")

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git checkout -- .

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git add index.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git checkout -- index.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git config --global alias.my-add add

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git my-add index.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git commit -m "again index is committing"
[master 784096f] again index is committing
1 file changed, 1 insertion(+), 1 deletion(-)

```

```

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git log
commit 784096fe65140046860c7dc19a71dc07cef22f05 (HEAD -> master)
Author: Bharath <userbharath@gmail.com>
Date:   Fri Oct 22 06:45:57 2021 +0530

    again index is committing

commit 626e337b73ffcbd7e9e3d7cdb8524fec743ca4e0
Author: Bharath <userbharath@gmail.com>
Date:   Fri Oct 22 06:34:42 2021 +0530

    index file is committed

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$ git revert 784096fe65140046860c7dc19a71dc07cef22f05
[master 49b93a6] Revert "again index is committing"
1 file changed, 1 insertion(+), 1 deletion(-)

BHARATH@LAPTOP-H6878C1G MINGW64 /e/project_dir (master)
$

```

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:/e/Assignments



```
BHARATH@LAPTOP-H6878C1G MINGW64 /e
$ mkdir Assignments

BHARATH@LAPTOP-H6878C1G MINGW64 /e
$ cd Assignments/

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments
$ touch README.txt

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments
$ git commit README.txt -m "matter inserted in readme file"
fatal: not a git repository (or any of the parent directories): .git

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments
$ git init
Initialized empty Git repository in E:/Assignments/.git/

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git add README.TXT

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git commit README.txt -m "matter inserted in readme file"
error: pathspec 'README.txt' did not match any file(s) known to git

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git commit
On branch master

Initial commit

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

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$
```



```
BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git commit -m "readme commit"
[master (root-commit) 40153dd] readme commit
1 file changed, 1 insertion(+)
create mode 100644 README.txt

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch
* master

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch "html-assignments"

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch
html-assignments
* master

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch
html-assignments
* master

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git checkout html-assignments
Switched to branch 'html-assignments'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git log
commit 40153dd31e6f16821c734cf1318aa1343bf1af82 (HEAD -> html-assignments, master)
Author: Bharath <userbharath@gmail.com>
Date: Fri Oct 22 07:04:30 2021 +0530

    readme commit

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git status
On branch html-assignments
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    sample.html

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

```

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git add sample.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git commit -m "committing sample html file"
[html-assignments 0f73b27] committing sample html file
1 file changed, 3 insertions(+)
create mode 100644 sample.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git status
On branch html-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:   sample.html

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git add sample.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git commit -m "sample again changed"
[html-assignments 17aeef] sample again changed
1 file changed, 1 insertion(+), 1 deletion(-)

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (html-assignments)
$ git checkout master
Switched to branch 'master'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git merge sample.html
merge: sample.html - not something we can merge

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        masterhtml.html

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git add .

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)

```

```

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git commit -m "this is master html file "
[master 9234294] this is master html file
1 file changed, 1 insertion(+)
create mode 100644 masterhtml.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git merge html-assignments
Merge made by the 'recursive' strategy.
sample.html | 3 +++
1 file changed, 3 insertions(+)
create mode 100644 sample.html

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch -d html-assignments
Deleted branch html-assignments (was 17aeef).

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$

```

SECTION-2 - (CSS assignments) Steps to follow:

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


```
BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git checkout css-assignments
Switched to branch 'css-assignments'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git branch
* css-assignments
  master

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ touch simple.css

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git status
On branch css-assignments
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    simple.css

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git add simple.css

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git commit -m "css file committed"
[css-assignments f0216a9] css file committed
1 file changed, 1 insertion(+)
create mode 100644 simple.css

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git status
On branch css-assignments
nothing to commit, working tree clean

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ ls
README.txt  masterhtml.html  sample.html  simple.css
```

```

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git checkout master
Switched to branch 'master'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git merge css-assignments
Updating 0a515cb..f0216a9
Fast-forward
 simple.css | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 simple.css

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch -d css-assignments
Deleted branch css-assignments (was f0216a9).

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$

```

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.

```
BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (css-assignments)
$ git checkout master
Switched to branch 'master'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git merge css-assignments
Updating 0a515cb..f0216a9
Fast-forward
 simple.css | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 simple.css

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch -d css-assignments
Deleted branch css-assignments (was f0216a9).

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch js-assignments

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git checkout js-assignments
Switched to branch 'js-assignments'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ touch one.js

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ touch two.js

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git status
On branch js-assignments
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    one.js
    two.js

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git add .
```

```
BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git commit -m "JS files"
[js-assignments b92329f] JS files
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 one.js
create mode 100644 two.js

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git branch
* js-assignments
  master

BHARATH@LAPTOP-H6878C1G MINGW64 /e/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:   one.js
        modified:   two.js

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

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git add .

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git commit -m "js files modified and committed"
[js-assignments b4ba6b4] js files modified and committed
2 files changed, 2 insertions(+)

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (js-assignments)
$ git checkout master
Switched to branch 'master'

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git merge js-assignments
Updating f0216a9..b4ba6b4
Fast-forward
  one.js | 1 +
  two.js | 1 +
  2 files changed, 2 insertions(+)
  create mode 100644 one.js
  create mode 100644 two.js

BHARATH@LAPTOP-H6878C1G MINGW64 /e/Assignments (master)
$ git branch -d js-assignments
Deleted branch js-assignments (was b4ba6b4).
```