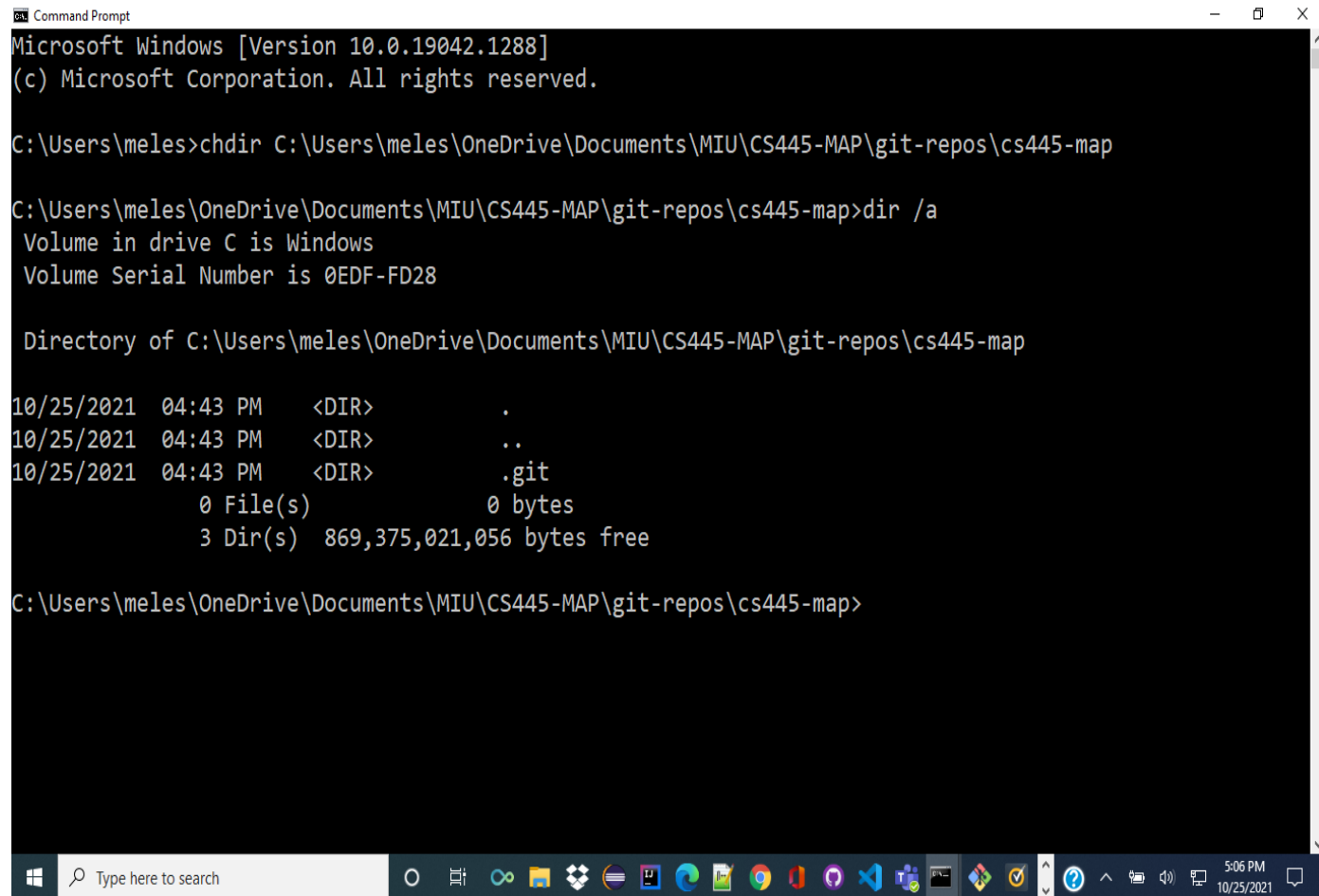


LAB-1a - Assignment

1. `git init`



```
Command Prompt
Microsoft Windows [Version 10.0.19042.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\meles>chdir C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>dir /a
Volume in drive C is Windows
Volume Serial Number is 0EDF-FD28

Directory of C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map

10/25/2021  04:43 PM    <DIR>          .
10/25/2021  04:43 PM    <DIR>          ..
10/25/2021  04:43 PM    <DIR>          .git
               0 File(s)                0 bytes
               3 Dir(s)  869,375,021,056 bytes free

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

2. `git status`

```
Command Prompt

Directory of C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map
10/25/2021  04:43 PM    <DIR>          .
10/25/2021  04:43 PM    <DIR>          ..
10/25/2021  04:43 PM    <DIR>          .git
               0 File(s)                0 bytes
               3 Dir(s)  869,375,021,056 bytes free

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git config --list --local
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git status
On branch master

No commits yet

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

```
Command Prompt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git status
On branch master

No commits yet

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git status
On branch master

No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        lesson1/

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

3. `git diff`

```
Command Prompt

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git diff
diff --git a/lesson1/my-git-demo-webapp/index.html b/lesson1/my-git-demo-webapp/index.html
index d0c658b..93e30f0 100644
--- a/lesson1/my-git-demo-webapp/index.html
+++ b/lesson1/my-git-demo-webapp/index.html
@@ -1,4 @@
-<h1>Welcome to My Git Demo WebApp</h1>
\ No newline at end of file
+<!DOCTYPE html>
+<html>
+<h1>Welcome to My Git Demo WebApp</h1>
+</html>
\ No newline at end of file

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

4. Create `.gitignore` file, and notice how it works

```
Administrator: Command Prompt

Volume Serial Number is 0EDF-FD28

Directory of C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map

10/26/2021  09:23 PM    <DIR>          .
10/26/2021  09:23 PM    <DIR>          ..
10/26/2021  09:23 PM                24 '.gitignore'
10/26/2021  10:52 AM    <DIR>          CS445-MAP
10/26/2021  09:20 PM                0 donottrack.txt
10/25/2021  11:47 PM    <DIR>          lesson1
10/25/2021  11:43 PM                20 README.txt
10/26/2021  09:20 PM    <DIR>          _temp
                3 File(s)          44 bytes
                5 Dir(s) 824,187,555,840 bytes free

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        '.gitignore'
        donottrack.txt

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

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

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git add .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   '.gitignore'
    new file:   'donottrack.txt'

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git commit -m "Added git
ignore file"
[master d2add13] Added gitignore file
2 files changed, 3 insertions(+)
create mode 100644 '.gitignore'
create mode 100644 donottrack.txt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

5. `git add`

```
Command Prompt
No commits yet

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

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    lesson1/

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git add .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   README.txt
    new file:   lesson1/my-git-demo-webapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

6. `git commit`

```
Command Prompt
C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   README.txt
        new file:   lesson1/my-git-demo-webapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git commit
-m "initial commit for the wepapp"
[master (root-commit) 8072ce1] initial commit for the wepapp
 2 files changed, 2 insertions(+)
 create mode 100644 README.txt
 create mode 100644 lesson1/my-git-demo-webapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>
```

```
Administrator: Command Prompt
git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   lesson1/my-git-demo-webapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git commit -m "Update index.html to fuller markup"
[master 5c90872] Update index.html to fuller markup
 1 file changed, 4 insertions(+), 1 deletion(-)

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git status
On branch master
nothing to commit, working tree clean

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

7. `git commit -amend` (updating the last commit)

```

Administrator: Command Prompt
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 23:54:38 2021 -0500

Initial commit fot the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git commit --amend -m "U
pdated index.html to fuller markup"
[master 73b9dcc] Updated index.html to fuller markup
Date: Tue Oct 26 00:00:39 2021 -0500
1 file changed, 4 insertions(+), 1 deletion(-)

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git log
commit 73b9dcc00df68aed744c4f4d94d80b04448a074d (HEAD -> master)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Tue Oct 26 00:00:39 2021 -0500

Updated index.html to fuller markup

commit 692a6906ff080f0b5918b047b2d56bf1d7e5fe43
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 23:54:38 2021 -0500

Initial commit fot the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>

```

8. `git log`

```

Command Prompt
C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git commit
-m "Update index.html fuller markup"
[master 120b914] Update index.html fuller markup
1 file changed, 4 insertions(+), 1 deletion(-)

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>git log
commit 120b914de2352af54567d42f784a10b72156d848 (HEAD -> master)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 18:19:44 2021 -0500

Update index.html fuller markup

commit 8072ce1ae83214a4a5df82972460325c3dd8a649
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 18:10:21 2021 -0500

initial commit for the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\git-repos\cs445-map>

```

10. `git tag`

```
Administrator: Command Prompt
nothing to commit, working tree clean

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git checkout master
Switched to branch 'master'

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git status
On branch master
nothing to commit, working tree clean

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git tag -a v1 -m "This is version 1"

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
git tag
v1

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

11. `git branch`

```
Administrator: Command Prompt
aboutpage
* master

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git checkout aboutpage
Switched to branch 'aboutpage'
M      lesson1/my-git-demo-wepapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git branch
* aboutpage
  master

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git status
On branch aboutpage
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:   lesson1/my-git-demo-wepapp/index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        CS445-MAP/
        lesson1/my-git-demo-wepapp/about.html
```



```
Administrator: Command Prompt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git commit -m "added about.html"
[aboutpage fdef7d1] added about.html
 3 files changed, 16 insertions(+)
 create mode 160000 CS445-MAP
 create mode 100644 lesson1/my-git-demo-wepapp/about.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git log
commit fdef7d13044b26294af6bf744ad3b0c9803eaf4b (HEAD -> aboutpage)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Tue Oct 26 20:22:53 2021 -0500

    added about.html

commit 73b9dcc00df68aed744c4f4d94d80b04448a074d (master)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Tue Oct 26 00:00:39 2021 -0500

    Updated index.html to fuller markup

commit 692a6906ff080f0b5918b047b2d56bf1d7e5fe43
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 23:54:38 2021 -0500
```

12. `git checkout

```
Administrator: Command Prompt

Initial commit fot the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git checkout 692a6906ff080f0b5918b047b2d56bf1d7e5fe43
warning: unable to rmdir 'CS445-MAP': Directory not empty
Note: switching to '692a6906ff080f0b5918b047b2d56bf1d7e5fe43'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 692a690 Initial commit fot the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```



```
Administrator: Command Prompt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>dir
Volume in drive C is Windows
Volume Serial Number is 0EDF-FD28

Directory of C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map

10/26/2021  10:52 AM    <DIR>          .
10/26/2021  10:52 AM    <DIR>          ..
10/26/2021  10:52 AM    <DIR>          CS445-MAP
10/25/2021  11:47 PM    <DIR>          lesson1
10/25/2021  11:43 PM                20 README.txt
               1 File(s)                20 bytes
               4 Dir(s)  824,136,224,768 bytes free

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git checkout 742a8b7de01
476e92d121dda8422d5bcadcad7d0
Previous HEAD position was 692a690 Initial commit for the wepapp
HEAD is now at 742a8b7 Updated index.html markup

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

13. `git merge`

1. Create a conflict and solve the conflict

```
Administrator: Command Prompt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git checkout aboutpage
Switched to branch 'aboutpage'

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git merge master
Auto-merging lesson1/my-git-demo-wepapp/index.html
CONFLICT (content): Merge conflict in lesson1/my-git-demo-wepapp/index.html
Automatic merge failed; fix conflicts and then commit the result.

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git status
On branch aboutpage
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:   lesson1/my-git-demo-wepapp/index.html

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git add .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git commit -m "Added 2 t
```

```

Administrator: Command Prompt
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:   lesson1/my-git-demo-wepapp/index.html

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git add .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git commit -m "Added 2 to header"
[aboutpage 3d48939] Added 2 to header

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git merge master
Already up to date.

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git checkout master
Switched to branch 'master'

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>

```

14. Undo changes from a certain commit `git revert`

```

Administrator: Command Prompt - git log
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date:   Tue Oct 26 19:39:13 2021 -0500

    Revert "updated Header wepapp - 1"

    This reverts commit 454325adeb107629f865623da3acd32faf7bd77f.

    Undoing the update of header with remove WebApp - 1

commit 454325adeb107629f865623da3acd32faf7bd77f
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date:   Tue Oct 26 19:37:33 2021 -0500

    updated Header wepapp - 1

commit 742a8b7de01476e92d121dda8422d5bcadcad7d0
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date:   Tue Oct 26 18:28:33 2021 -0500

    Updated index.html markup

commit 187a9d69c11dbfbc17580aab2837383cba978cae
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date:   Tue Oct 26 18:22:35 2021 -0500

:

```

15. `git restore`

```
Administrator: Command Prompt
Switched to branch 'master'

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git tag"
v1

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>code .

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>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:   lesson1/my-git-demo-wepapp/index.html

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git restore C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map\lesson1\my-git-demo-wepapp\index.htm
l

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git status
On branch master
nothing to commit, working tree clean

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```

15. Erase commits with `git reset`

```
Administrator: Command Prompt

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git reset v1
Unstaged changes after reset:
M      lesson1/my-git-demo-wepapp/index.html

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>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:   lesson1/my-git-demo-wepapp/index.html

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        CS445-MAP/
        lesson1/my-git-demo-wepapp/about.html

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git log
commit 5c9087249999a591a7e275a458c9d66f214994c8 (HEAD -> master, tag: v1)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date:   Tue Oct 26 00:00:39 2021 -0500

    Update index.html to fuller markup
```

```
Administrator: Command Prompt

modified: lesson1/my-git-demo-wepapp/index.html

Untracked files:
(use "git add <file>..." to include in what will be committed)
CS445-MAP/
lesson1/my-git-demo-wepapp/about.html

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

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>git log
commit 5c9087249999a591a7e275a458c9d66f214994c8 (HEAD -> master, tag: v1)
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Tue Oct 26 00:00:39 2021 -0500

    Update index.html to fuller markup

commit 692a6906ff080f0b5918b047b2d56bf1d7e5fe43
Author: Abdulhamid Ibrahim <hamidibrahim2003@gmail.com>
Date: Mon Oct 25 23:54:38 2021 -0500

    Initial commit fot the wepapp

C:\Users\meles\OneDrive\Documents\MIU\CS445-MAP\workspaces\git-repos\cs445-map>
```