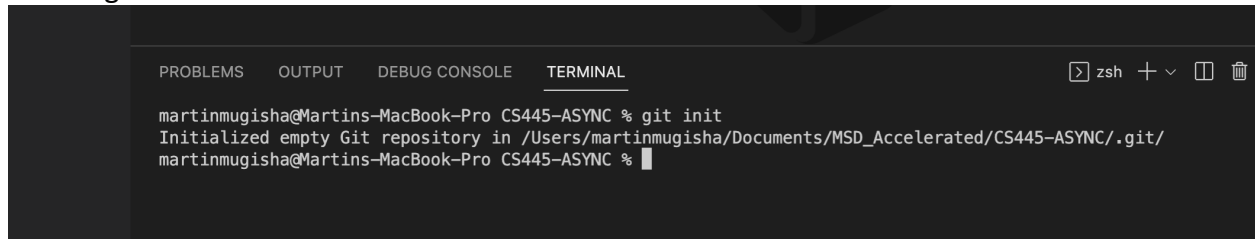


Matt M Mugisha

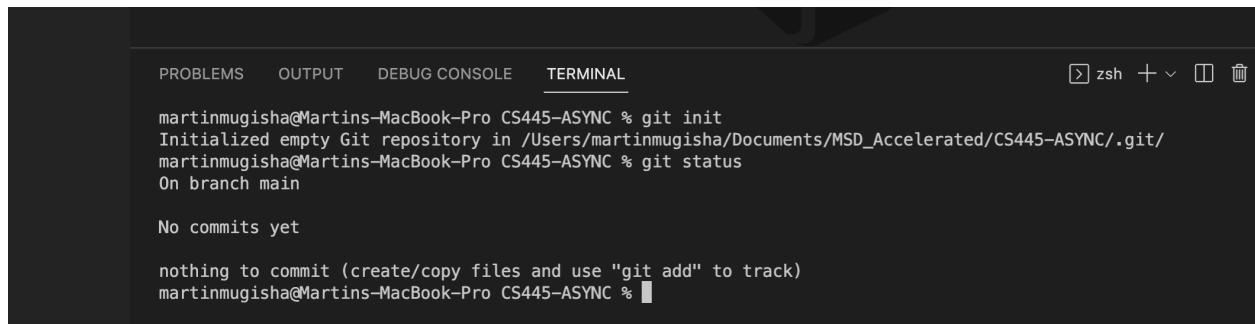
## Lab1

### 1. git init

A terminal window with a dark background. The title bar shows 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL'. The terminal text shows a user running 'git init' in a directory, which initializes an empty Git repository. The prompt is 'martinmugisha@Martins-MacBook-Pro CS445-ASYNC %' and the output is 'Initialized empty Git repository in /Users/martinmugisha/Documents/MSD\_Accelerated/CS445-ASYNC/.git/' followed by a new prompt.

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git init
Initialized empty Git repository in /Users/martinmugisha/Documents/MSD_Accelerated/CS445-ASYNC/.git/
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

### 2 git status

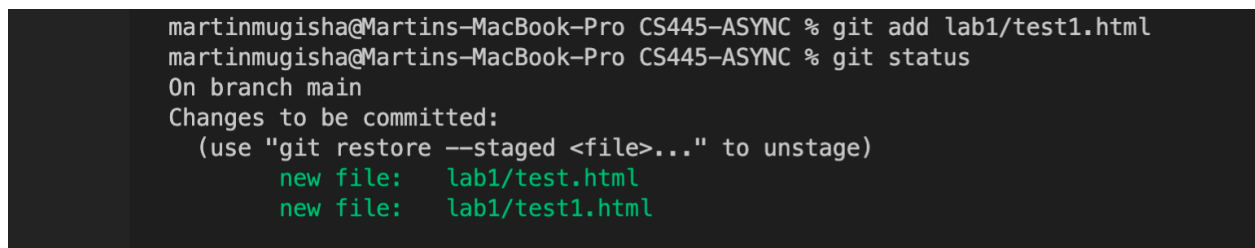
A terminal window showing the output of 'git status'. It indicates that the user is on the 'main' branch and there are no commits yet. It also shows a message about nothing to commit and a prompt to use 'git add' to track files. The prompt is 'martinmugisha@Martins-MacBook-Pro CS445-ASYNC %' and the output is 'On branch main', 'No commits yet', and 'nothing to commit (create/copy files and use "git add" to track)' followed by a new prompt.

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git init
Initialized empty Git repository in /Users/martinmugisha/Documents/MSD_Accelerated/CS445-ASYNC/.git/
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git status
On branch main

No commits yet

nothing to commit (create/copy files and use "git add" to track)
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

### 3.git add

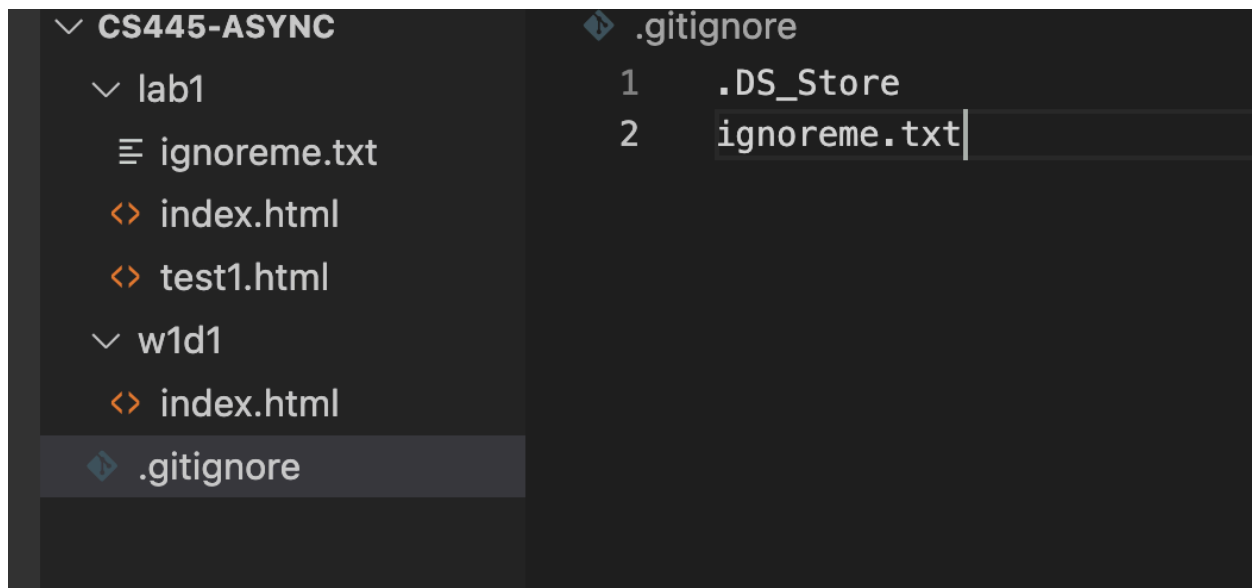
A terminal window showing the output of 'git add' and 'git status'. It shows that a file 'lab1/test1.html' has been added to the staging area. The prompt is 'martinmugisha@Martins-MacBook-Pro CS445-ASYNC %' and the output is 'lab1/test1.html', 'On branch main', 'Changes to be committed:', '(use "git restore --staged <file>..." to unstage)', 'new file: lab1/test.html', and 'new file: lab1/test1.html' followed by a new prompt.

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git add lab1/test1.html
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   lab1/test.html
    new file:   lab1/test1.html
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

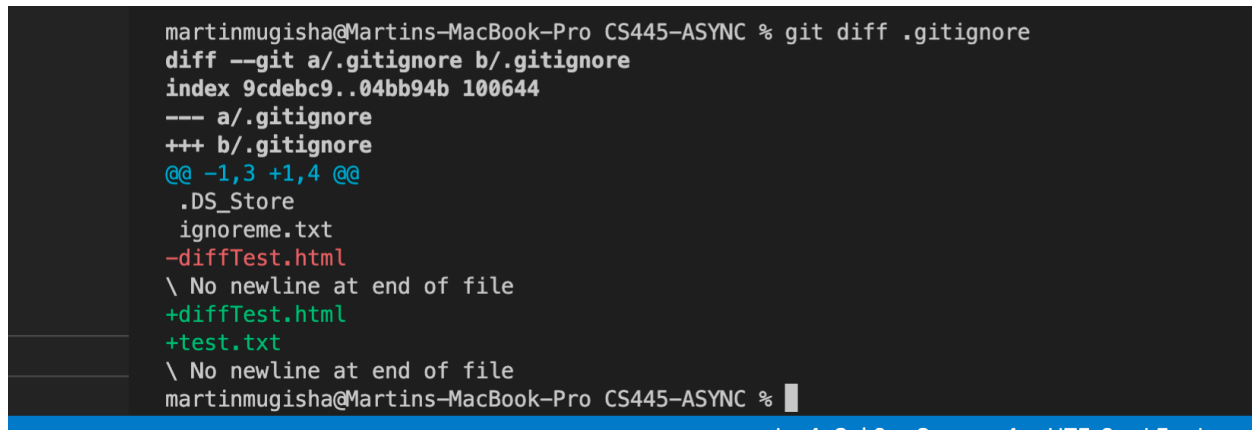
#### 4. git commit

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git commit -m"file added"
[main (root-commit) 5f3d6f0] file added
 2 files changed, 12 insertions(+)
 create mode 100644 lab1/index.html
 create mode 100644 w1d1/index.html
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

#### 5 .gitignore



#### 6.git diff



## 7.git Log

```
martinmugisha@Martins-MBP CS445-ASYNC % git log
commit 61175b90c4e0b1e02a157a9e637d3ed3ade4d1a9 (HEAD -> main)
Author: mattmugisha <mugisham410@gmail.com>
Date: Mon Oct 31 21:04:25 2022 -0500

    file deleted

commit 45f340a99fa39f3e97beafedf1be971799e72169
Author: mattmugisha <mugisham410@gmail.com>
Date: Mon Oct 31 21:03:40 2022 -0500

    files added

commit 5f3d6f063b961839f4a532ca0809d3bda10e5f35
Author: mattmugisha <mugisham410@gmail.com>
Date: Mon Oct 31 17:30:35 2022 -0500
```

## 8. git commit --amend

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git commit --amend -m "function sayhi created"
[main b75e5ce] function sayhi created
Date: Tue Nov 1 15:09:44 2022 -0500
1 file changed, 3 insertions(+)
create mode 100644 lab1/index.js
```

## 9.git tag

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git tag -a f1 -m "greeting function"61175b9
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git tag
f1
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

## 10.git branch

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git branch newBranch
```

## 11.git switch

```
fatal: only one reference expected
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git switch newBranch
Switched to branch 'newBranch'
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

## 11.git checkout

```
Switched to branch 'newBranch'
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git checkout main
Switched to branch 'main'
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

## 12. git merge

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git branch
* main
  newBranch
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git merge newBranch
Auto-merging lab1/index.js
CONFLICT (content): Merge conflict in lab1/index.js
Auto-merging lab1/merging.js
CONFLICT (add/add): Merge conflict in lab1/merging.js
Automatic merge failed; fix conflicts and then commit the result.
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git add .
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git commit -m "merge fixed"
[main 869aa70] merge fixed
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git merge newBranch
Already up to date.
martinmugisha@Martins-MacBook-Pro CS445-ASYNC %
```

## 13.git revert

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git revert HEAD
hint: Waiting for your editor to close the file... code --wait:
```

## 14. git reset

```
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git reset d8c48ce
Unstaged changes after reset:
M   lab1/index.js
martinmugisha@Martins-MacBook-Pro CS445-ASYNC % git log --oneline
d8c48ce (HEAD -> main) new reversed
a007d03 greeting added
```

## HOMEWORK Part 2

Git push

Git remote

```
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git add .
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git commit -m"added function"
[main d2b0a17] added function
 1 file changed, 5 insertions(+), 1 deletion(-)
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git remote
origin
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 313 bytes | 313.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/mugishamatt/cs445-lab1.git
   9380fb4..d2b0a17  main -> main
martinmugisha@Martins-MacBook-Pro cs445-lab1 %
```

Git fetch

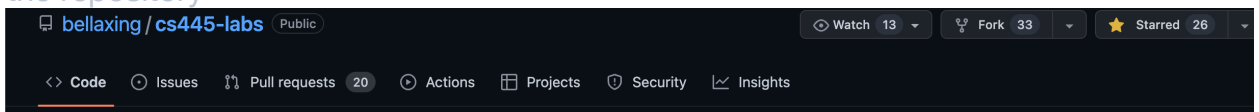
```
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git fetch
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 703 bytes | 234.00 KiB/s, done.
From https://github.com/mugishamatt/cs445-lab1
   d2b0a17..574e977  main      -> origin/main
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git merge
Updating d2b0a17..574e977
Fast-forward
 README.md | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
martinmugisha@Martins-MacBook-Pro cs445-lab1 %
```

## Git pull

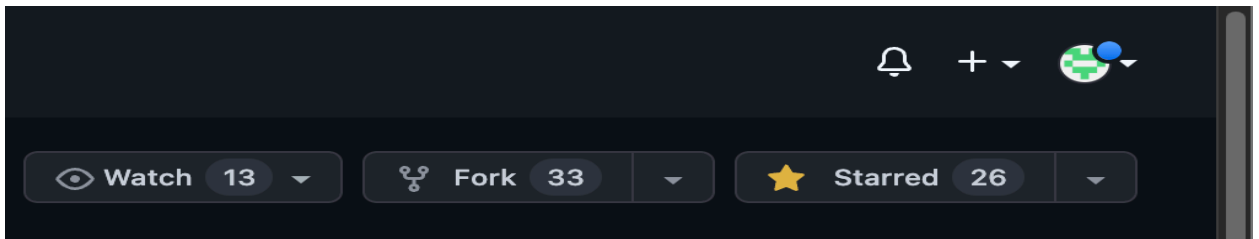
```
martinmugisha@Martins-MacBook-Pro cs445-lab1 % git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 712 bytes | 178.00 KiB/s, done.
From https://github.com/mugishamatt/cs445-lab1
   574e977..20eb7ff  main      -> origin/main
Updating 574e977..20eb7ff
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
martinmugisha@Martins-MacBook-Pro cs445-lab1 %
```

## PART 3

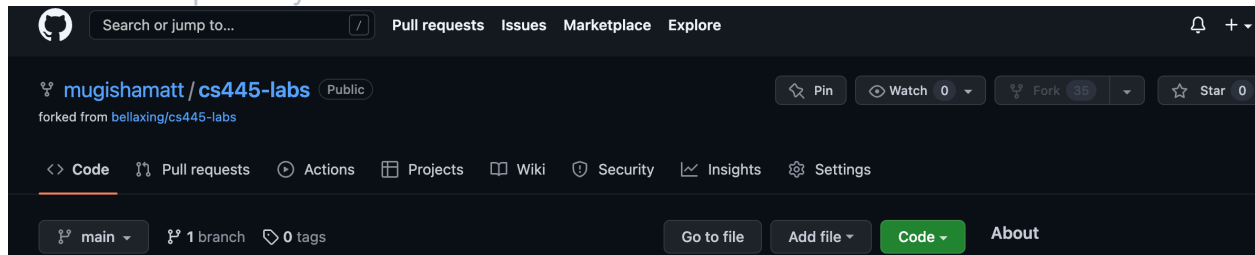
### 1 Star the repository



### 2 Watch the repository for any changes



### 3 Fork the repository



4 Clone your forked repository into your local machine

5 Create a new topic branch using studentId-studentName format, For example:

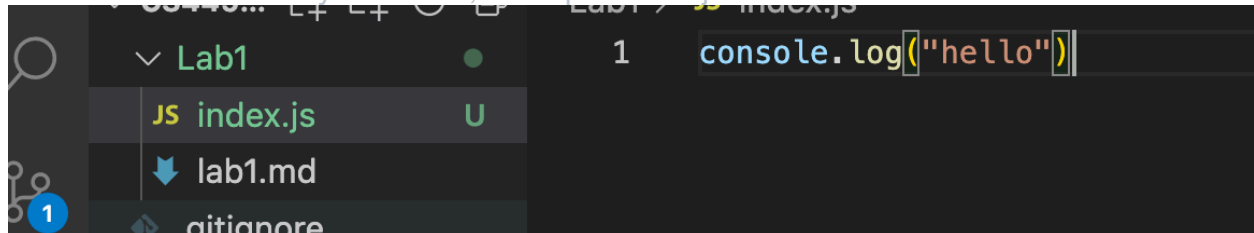
610001-JohnSmith

```
martinmugisha@Martins-MacBook-Pro cs445-labs % git branch  
114020-mugisha  
* main  
martinmugisha@Martins-MacBook-Pro cs445-labs %
```

6 Checkout your new branch

```
martinmugisha@Martins-MacBook-Pro cs445-labs % git checkout 114020-mugisha  
Switched to branch '114020-mugisha'  
martinmugisha@Martins-MacBook-Pro cs445-labs %
```

7 Add a new file with your name, example: hello.js



8 Commit the changes

```
martinmugisha@Martins-MacBook-Pro cs445-labs % git commit -m "  
file created"  
[114020-mugisha 91c3dd4] file created  
1 file changed, 1 insertion(+)  
create mode 100644 Lab1/index.js
```

9 Merge your studentId-studentName branch with the main branch

```
martinmugisha@Martins-MacBook-Pro cs445-labs % git merge 114020-mugisha  
Updating 2b07b34..91c3dd4  
Fast-forward  
Lab1/index.js | 1 +  
1 file changed, 1 insertion(+)  
create mode 100644 Lab1/index.js  
martinmugisha@Martins-MacBook-Pro cs445-labs %
```

10 Push your changes to the remote repo

```
martinmugisha@Martins-MacBook-Pro cs445-labs % git push origin main  
Enumerating objects: 6, done.  
Counting objects: 100% (6/6), done.  
Delta compression using up to 8 threads
```

## 11 Create a new Pull Request to the upstream repo

Open

**pull requested #32**  
mugishamatt wants to merge 2 commits into `bellaxing:main` from `mugishamatt:main`

No description provided.

Still in progress? Con

Assignees  
No one assigned

Labels  
None yet

Projects  
None yet

Milestone  
No milestone

Development  
Successfully merging these issues.

None yet

Notifications  
You're receiving notif  
the thread.

mugishamatt added 2 commits 30 minutes ago

lab1 2b07b34

file created 91c3dd4

mugishamatt commented 2 minutes ago

Author

this is for assignment

Add more commits by pushing to the `main` branch on `mugishamatt/cs445-labs`.

This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.

Write Preview

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.