

Part 1.

Merge conflict:

```
Terminal - hello.txt (~/.bioinfo/Bi625/git_assignment) - VIM
+ 1 | Hello world
+ 1 | <<<<<<< HEAD
+ 2 | hola
+ 3 | =====
+ 4 | aloha
+ 5 | >>>>>>> hawaiian
~
~
~
```

Completed merge:

```
Tue Feb 04 20:21:24 |master| ~/.bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* 6a611bd (HEAD -> master) fixed merge conflict
| \
| * b0bda8a (hawaiian) aloha means hello
* | 88d5f9b (spanish) hola mundo
| /
* d313531 first commit
```

Detached head:

```
Tue Feb 04 20:22:47 |master| ~/.bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git checkout b0bda8a
Note: switching to 'b0bda8a'.

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 b0bda8a aloha means hello
Tue Feb 04 20:23:53 || ~/.bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* 6a611bd (master) fixed merge conflict
| \
| * b0bda8a (HEAD, hawaiian) aloha means hello
* | 88d5f9b (spanish) hola mundo
| /
* d313531 first commit
```

Change to new head:

```
Tue Feb 04 20:26:16 | | ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* a911819 (HEAD, another_branch) new file created
| * 6a611bd (master) fixed merge conflict
|/
|/
|/
* b0bda8a (hawaiian) aloha means hello
| * 88d5f9b (spanish) hola mundo
|/
* d313531 first commit
Tue Feb 04 20:26:25 | | ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$
```

Final merge:

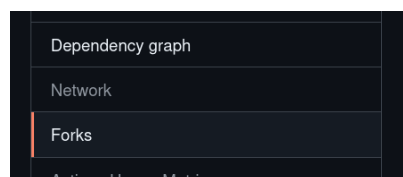
```
Tue Feb 04 20:27:07 |master| ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* b8ce268 (HEAD -> master) Merge branch 'another_branch'
|/
| * a911819 (another_branch) new file created
| * 6a611bd fixed merge conflict
|/
| * b0bda8a (hawaiian) aloha means hello
| * 88d5f9b (spanish) hola mundo
|/
* d313531 first commit
Tue Feb 04 20:27:10 |master| ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$
```

Part 2.

Output of `git log --all --graph --decorate --oneline`:

```
Tue Feb 04 20:35:24 |main| ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* b8ce268 (HEAD -> main, origin/main) Merge branch 'another_branch'
|/
| * a911819 (another_branch) new file created
| * 6a611bd fixed merge conflict
|/
| * b0bda8a (hawaiian) aloha means hello
| * 88d5f9b (spanish) hola mundo
|/
* d313531 first commit
Tue Feb 04 20:35:43 |main| ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$
```

Screenshot of GitHub network:



There is no network visible here, it is grayed out and cannot be selected. :-(

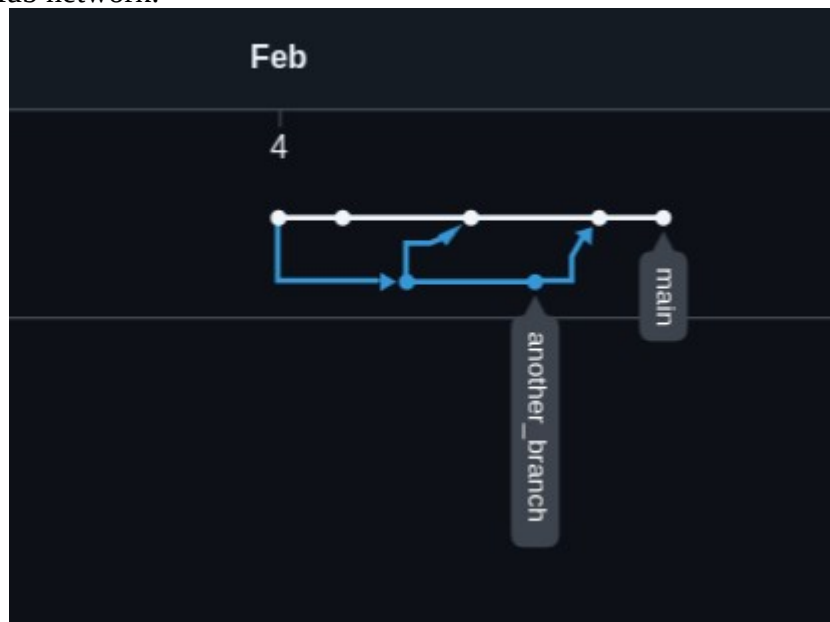
P.S. I figured it out that the repository was private. I made it public but the repo had already been pushed to from Talapas. See the screenshot below.

Part 3.

Made change on Talapas:

```
(base) [wesg@login1|main|git_assignment]$ git log --all --graph --decorate --oneline
* c28694e (HEAD -> main) talapas commit
* b8ce268 (origin/main, origin/HEAD) Merge branch 'another_branch'
|
| * a911819 (origin/another_branch) new file created
| * | 6a611bd fixed merge conflict
| |
| | * b0bda8a aloha means hello
| | * | 88d5f9b hola mundo
| |
| |
| * d313531 first commit
(base) [wesg@login1|main|git_assignment]$
```

Screenshot of GitHub network:



Output of `git log --all --graph --decorate --oneline` on local machine:

```
wesley@wkg-t14deb$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 323 bytes | 161.00 KiB/s, done.
From https://github.com/wesleygomersall/git_assignment
   b8ce268..c28694e  main       -> origin/main
Updating b8ce268..c28694e
Fast-forward
 talapasfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 talapasfile.txt
Tue Feb 04 20:52:09 [main] ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$ git log --all --graph --decorate --oneline
* c28694e (HEAD -> main, origin/main) talapas commit
* b8ce268 Merge branch 'another_branch'
|
| * a911819 (origin/another_branch, another_branch) new file created
| * | 6a611bd fixed merge conflict
| |
| | * b0bda8a (hawaiian) aloha means hello
| | * | 88d5f9b (spanish) hola mundo
| |
| |
| * d313531 first commit
Tue Feb 04 20:52:49 [main] ~/bioinfo/Bi625/git_assignment
wesley@wkg-t14deb$
```