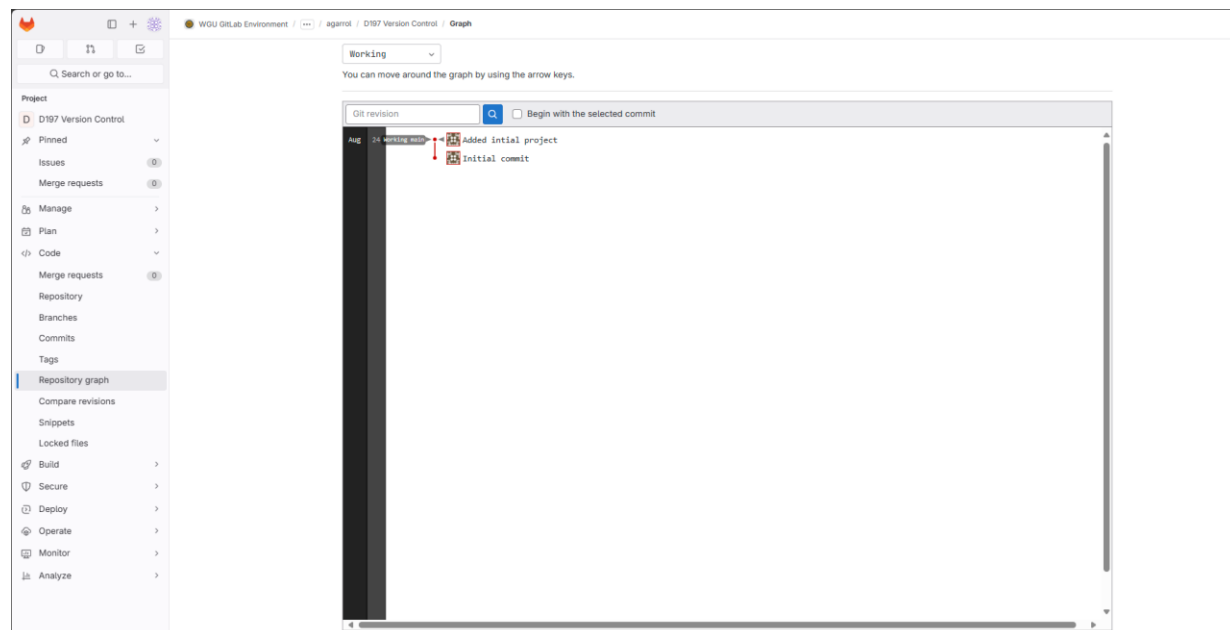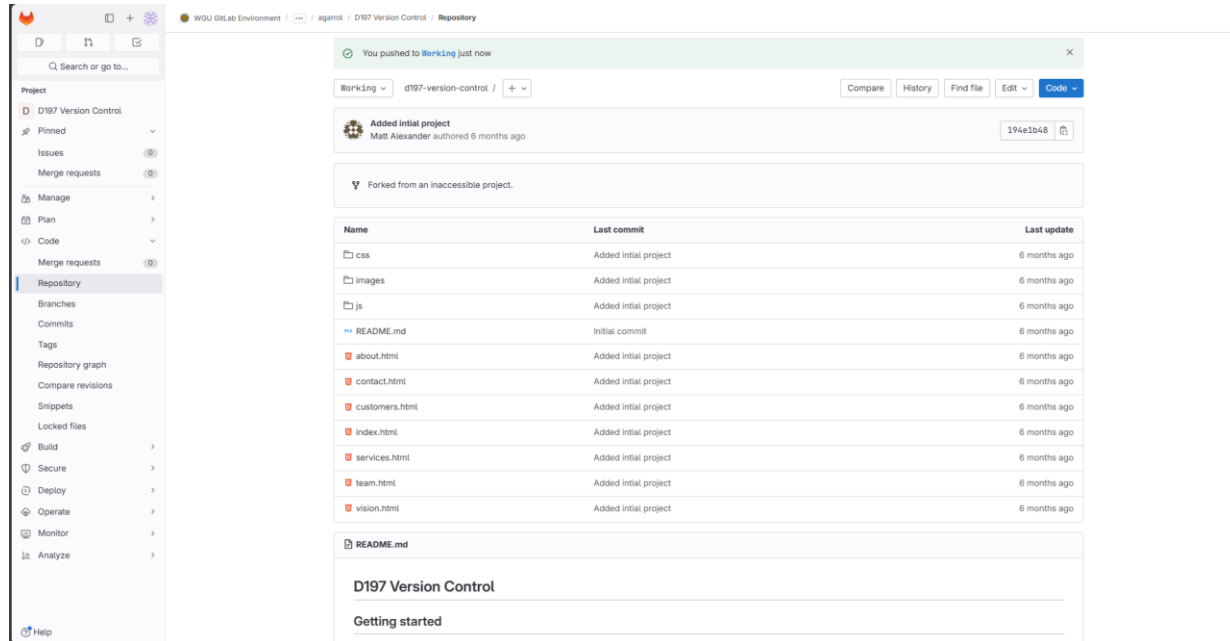# D197 - Version Control Template

Step A Screenshot

Below is a screenshot of the current repository graph in Gitlab after completing the steps in A:

I pushed the new branch of "Working" to repository.

Step B Screenshot

Below is a screenshot of the command line action after completing the steps in B:

```
aaron@Aaronlz MINGW64 ~
$ git clone https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197
-version-control.git
fatal: destination path 'd197-version-control' already exists and is not an empt
y directory.

aaron@Aaronlz MINGW64 ~
$ git clone https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197
-version-control.git
Cloning into 'd197-version-control'...
remote: Enumerating objects: 48, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 48 (delta 9), reused 10 (delta 6), pack-reused 29
Receiving objects: 100% (48/48), 105.76 KiB | 7.55 MiB/s, done.
Resolving deltas: 100% (15/15), done.

aaron@Aaronlz MINGW64 ~
$ |
```

This screenshot shows the command line action for cloning the remote repository from GitLab to my local machine.

```
-version-control.git
fatal: destination path 'd197-version-control' already exists and is not an empt
y directory.

aaron@Aaronlz MINGW64 ~
$ git clone https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197
-version-control.git
Cloning into 'd197-version-control'...
remote: Enumerating objects: 48, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 48 (delta 9), reused 10 (delta 6), pack-reused 29
Receiving objects: 100% (48/48), 105.76 KiB | 7.55 MiB/s, done.
Resolving deltas: 100% (15/15), done.

aaron@Aaronlz MINGW64 ~
$ cd d197-version-control

aaron@Aaronlz MINGW64 ~/d197-version-control (main)
$ git checkout -b Working
Switched to a new branch 'Working'

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ |
```

Switching from Main to Working branch.

Step C Screenshot

Below is a screenshot for each git command for each change made to the HTML files after completing the steps in C:

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim index.html

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add .

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit m- "Updated title to 'Western Tech Hub-Home' in index.html"
error: pathspec 'm-' did not match any file(s) known to git
error: pathspec 'Updated title to 'Western Tech Hub-Home' in index.html' did not
 match any file(s) known to git

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Updated title to 'Western Tech Hub- Home' in index.html"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'aaron@Aaronlz.(none)')

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git config --global user.email "agarrol@wgu.edu"

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git config --global user.name "Aaron Lorenzo"

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Updated title to 'Western Tech Hub-Home' in index.html"
[Working 1d8c0cc] Updated title to 'Western Tech Hub-Home' in index.html
 1 file changed, 2 insertions(+), 2 deletions(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push
fatal: The current branch Working has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin Working

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push --set-upstream origin Working
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 24 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 381 bytes | 381.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:    https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-v
ersion-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-
control.git
   194e1b4..1d8c0cc  Working -> Working
branch 'Working' set up to track 'origin/Working'.

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$
```

1st html document change

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim contact.html

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add contact.html

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added phone number field in contact form in contact.html"
[Working 7dfad75] Added phone number field in contact form in contact.html
 1 file changed, 4 insertions(+), 1 deletion(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 24 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 422 bytes | 422.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control.git
   1d8c0cc..7dfad75  Working -> Working

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$
```

2nd html document change

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim about.html

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add about.html

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added additional statement in Quality section in about.html"
[Working 55b0021] Added additional statement in Quality section in about.html
 1 file changed, 2 insertions(+), 2 deletions(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 24 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 392 bytes | 392.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control.git
   7dfad75..55b0021  Working -> Working

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$
```

3rd html document change

Step D Two Screenshots

Below is a screenshot of the command line action after completing the steps in D:

```
aaron@Aaron1z MINGW64 ~/d197-version-control (Working)
$ git checkout -b Test
Switched to a new branch 'Test'

aaron@Aaron1z MINGW64 ~/d197-version-control (Test)
$ vim README.md

aaron@Aaron1z MINGW64 ~/d197-version-control (Test)
$ git add README.md

aaron@Aaron1z MINGW64 ~/d197-version-control (Test)
$ git commit -m "Added student ID to README.md"
[Test 6eb9d51] Added student ID to README.md
 1 file changed, 1 insertion(+), 1 deletion(-)

aaron@Aaron1z MINGW64 ~/d197-version-control (Test)
$ git push origin Test
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 24 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Test, visit:
remote:    https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Test
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control.git
 * [new branch]      Test -> Test

aaron@Aaron1z MINGW64 ~/d197-version-control (Test)
$
```
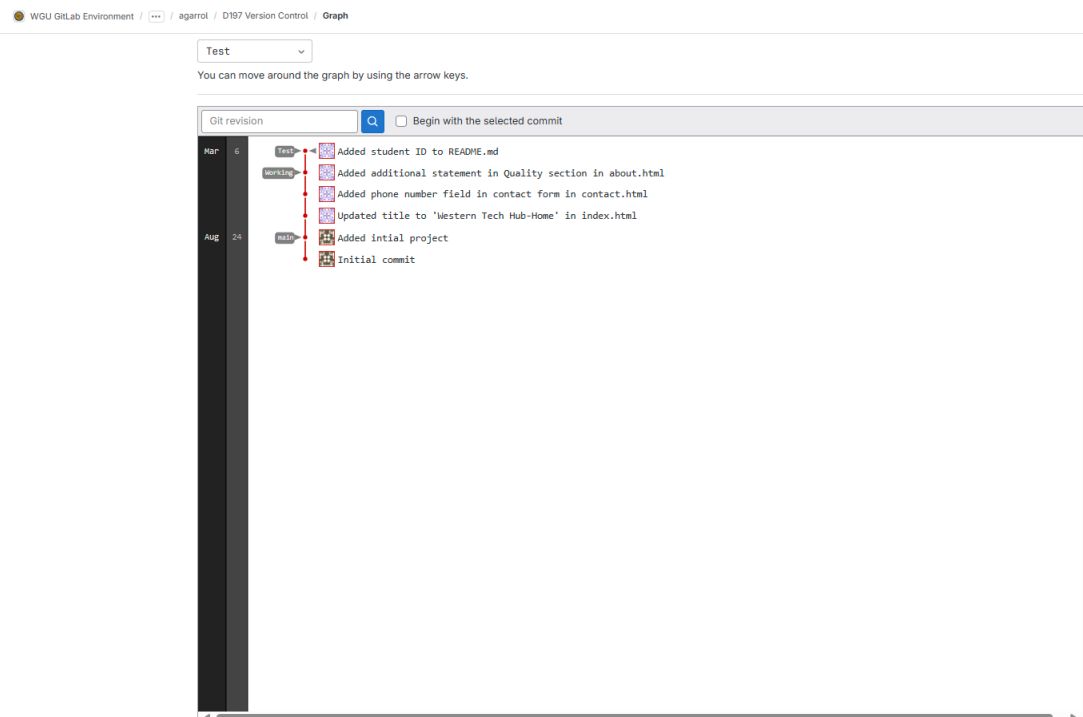
In this step, I created the "Test" branch and added my student ID to README.md file as well in this branch.

Below is a screenshot of the current repository graph in Gitlab after completing the steps in D:

Step E Two Screenshots

Below is a screenshot that demonstrates the conflict of a merge command line action after completing the steps in E:

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Test)
$ git checkout Working
Switched to branch 'Working'
Your branch is up to date with 'origin/Working'.

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim README.md

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add --all

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added git version to README.md on Working branch"
[Working 6ac4a5b] Added git version to README.md on Working branch
 1 file changed, 2 insertions(+), 2 deletions(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git merge Test
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

aaron@Aaronlz MINGW64 ~/d197-version-control (Working|MERGING)
$
```

In the above screenshot it shows Git giving the Merge conflict objection.

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim README.md

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add --all

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added git version to README.md on Working branch"
[Working 6ac4a5b] Added git version to README.md on Working branch
 1 file changed, 2 insertions(+), 2 deletions(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git merge Test
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

aaron@Aaronlz MINGW64 ~/d197-version-control (Working|MERGING)
$ vim README.md

aaron@Aaronlz MINGW64 ~/d197-version-control (Working|MERGING)
$ git add README.md

aaron@Aaronlz MINGW64 ~/d197-version-control (Working|MERGING)
$ git status
On branch Working
Your branch is ahead of 'origin/Working' by 1 commit.
  (use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)

Changes to be committed:
        modified:   README.md


aaron@Aaronlz MINGW64 ~/d197-version-control (Working|MERGING)
$ git commit -m "Merged with README.md after fixing conflicts"
[Working 695f3b3] Merged with README.md after fixing conflicts

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 24 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 718 bytes | 718.00 KiB/s, done.
Total 6 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:    https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control.git
   55b0021..695f3b3  Working -> Working

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$
```
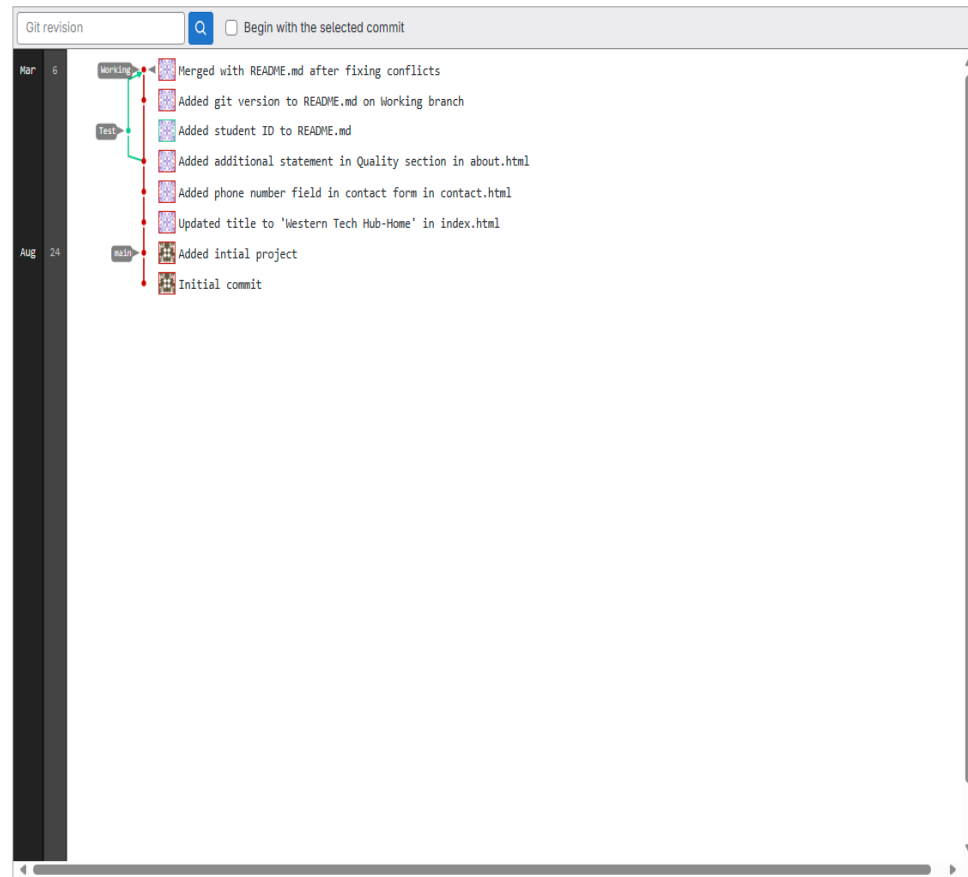
The conflict during merging has been resolved by incorporating modified changes, which were reviewed by examining their differences in the middle of the conflict. Subsequently, these changes were pushed to the Working branch.

Below is a screenshot of the current repository graph in Gitlab after completing the steps in E:

Working ∨

You can move around the graph by using the arrow keys.

Git revision [🔍] ☐ Begin with the selected commit

Mar 6	[Working] ◄◄	Merged with README.md after fixing conflicts
		Added git version to README.md on Working branch
	[Test] ►	Added student ID to README.md
		Added additional statement in Quality section in about.html
		Added phone number field in contact form in contact.html
		Updated title to 'Western Tech Hub-Home' in index.html
Aug 24	[main] ►	Added intial project
		Initial commit

Step F Two Screenshots

Below is a screenshot of the command line after completing the steps in F:

```
aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git tag V.1.0.0
fatal: tag 'V.1.0.0' already exists

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git tag V.1.0.0
fatal: tag 'V.1.0.0' already exists

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git tag -d V.1.0.0
Deleted tag 'V.1.0.0' (was b84baac)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git tag V.1.0.0

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add .

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Created version tag for Working branch"
On branch Working
Your branch is up to date with 'origin/Working'.

nothing to commit, working tree clean

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ vim README.md

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git add .

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git commit -m "Created version tag for Working branch"
[Working d92112e] Created version tag for Working branch
 1 file changed, 1 insertion(+), 1 deletion(-)

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 24 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 346 bytes | 346.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/agarrol/d197-version-control.git
   695f3b3..d92112e  Working -> Working

aaron@Aaronlz MINGW64 ~/d197-version-control (Working)
$
```

Below is a screenshot of the current repository graph in Gitlab after completing the steps in F: