Christopher Palmquist
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YDM3 — YDM3 Task 1: Version Control Using Git for GitLab

Version Control – D197

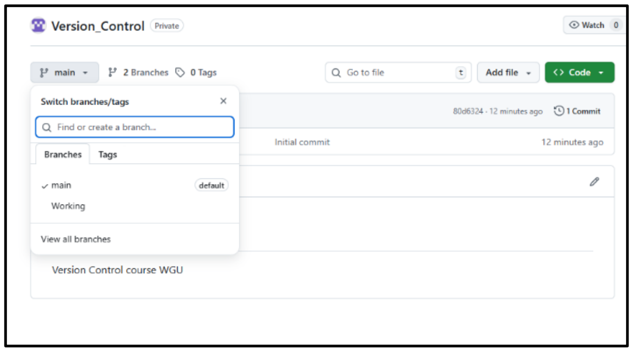
GitHub Repository Link: https://github.com/Fenris13/Version_Control

Prepare Your Repository with Initial Data on GitLab

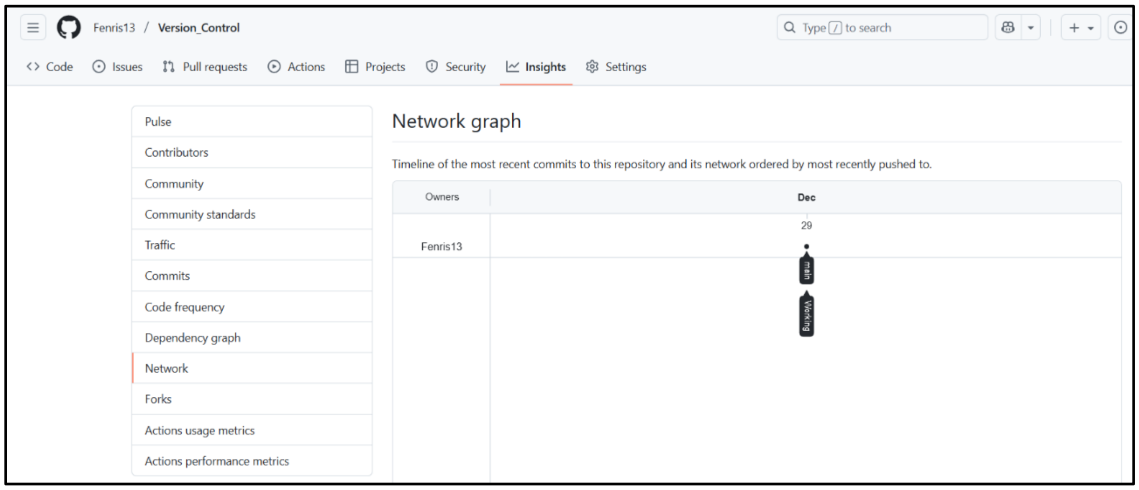
A. Create your subgroup and project in GitLab using the provided web link and the "GitLab How-To" web link by doing the following:

1. Create a new branch named "Working" in GitLab.

2. Include a screenshot of your current repository graph in GitLab.



A1: Shows branches from repository home page.



A2: Shows branches on Network graph.

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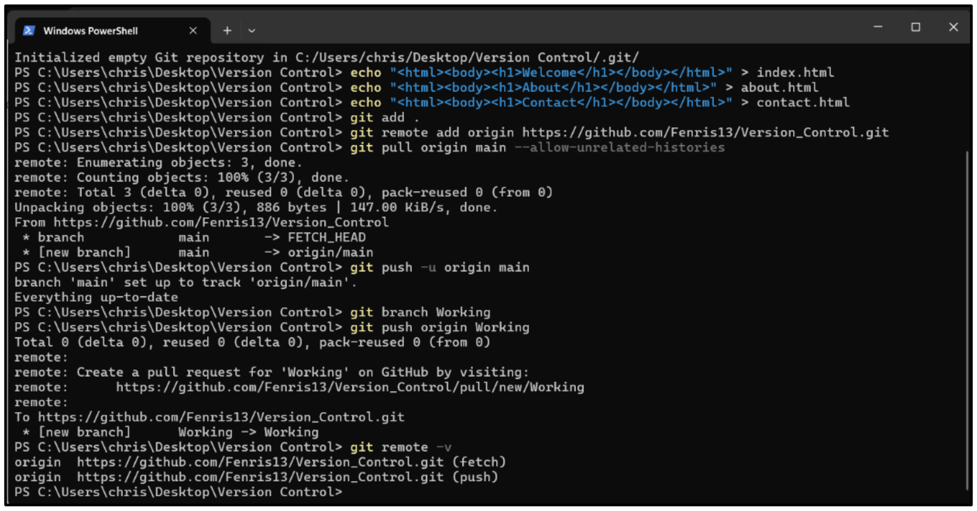
Clone Your Repository on Your Local Machine

B. Clone your remote repository from GitLab to your local machine using the command line interface. Include a screenshot of the command line action and be sure to have your repository name visible in the command prompt.



```
Initialized empty Git repository in C:/Users/chris/Desktop/Version Control/.git/
PS C:\Users\chris\Desktop\Version Control> echo "<html><body><h1>Welcome</h1></body></html>" > index.html
PS C:\Users\chris\Desktop\Version Control> echo "<html><body><h1>About</h1></body></html>" > about.html
PS C:\Users\chris\Desktop\Version Control> echo "<html><body><h1>Contact</h1></body></html>" > contact.html
PS C:\Users\chris\Desktop\Version Control> git add .
PS C:\Users\chris\Desktop\Version Control> git remote add origin https://github.com/Fenris13/Version_Control.git
PS C:\Users\chris\Desktop\Version Control> git pull origin main --allow-unrelated-histories
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 886 bytes | 147.00 KiB/s, done.
From https://github.com/Fenris13/Version_Control
 * branch            main       -> FETCH_HEAD
 * [new branch]      main       -> origin/main
PS C:\Users\chris\Desktop\Version Control> git push -u origin main
branch 'main' set up to track 'origin/main'.
Everything up-to-date
PS C:\Users\chris\Desktop\Version Control> git branch Working
PS C:\Users\chris\Desktop\Version Control> git push origin Working
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'Working' on GitHub by visiting:
remote:      https://github.com/Fenris13/Version_Control/pull/new/Working
remote:
To https://github.com/Fenris13/Version_Control.git
 * [new branch]      Working -> Working
PS C:\Users\chris\Desktop\Version Control> git remote -v
origin  https://github.com/Fenris13/Version_Control.git (fetch)
origin  https://github.com/Fenris13/Version_Control.git (push)
PS C:\Users\chris\Desktop\Version Control>
```

B: Screenshot showing repository clone.

** I created the HTML documents locally using terminal commands and then pushed to Repository instead of creating files within VS Code.*

Make Changes, Commit, and Push

C. Modify (using any text editor) **three** HTML files on the Working branch by doing the following:

1. Commit *each* change with a short, meaningful message that explains *all* changes you have made to the **three** HTML files. Include a screenshot for *each* git command for *each* change and be sure to have your repository name visible in the command prompt.

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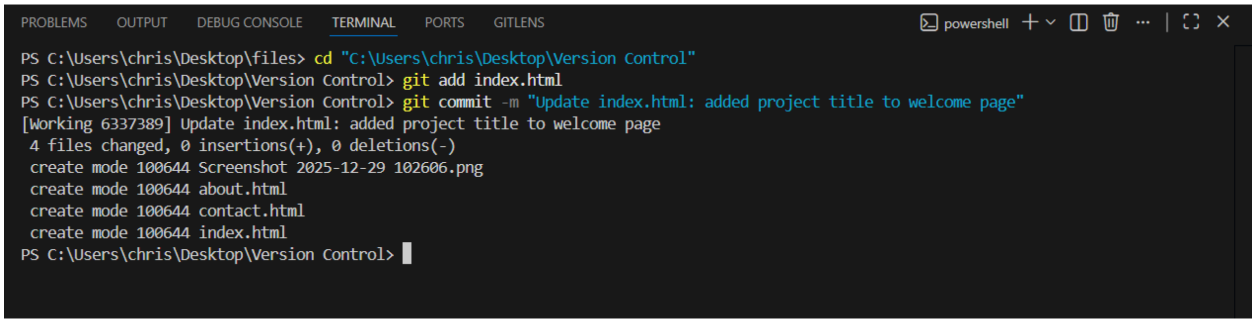
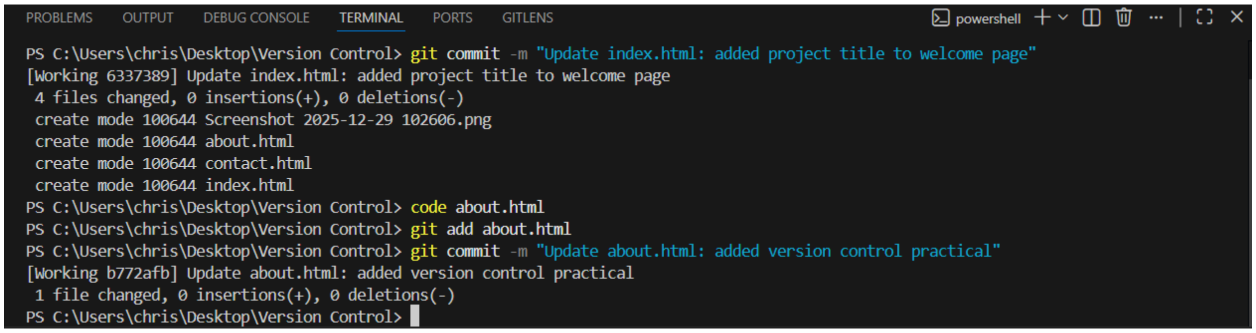

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

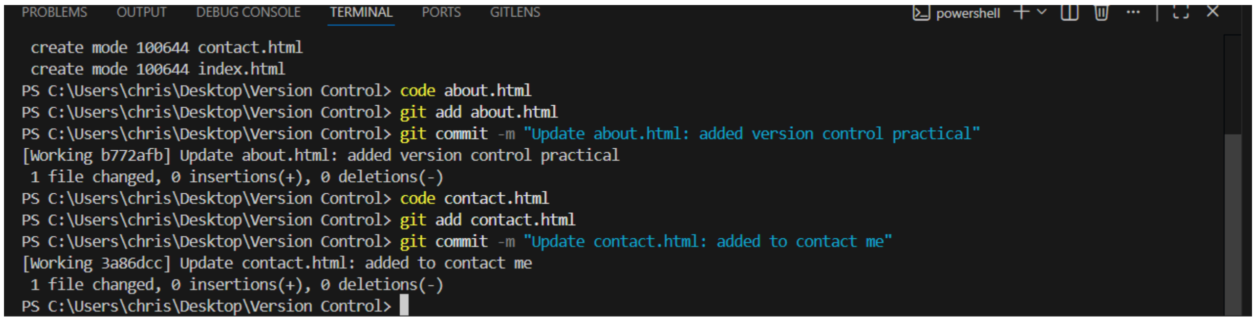
```
PS C:\Users\chris\Desktop\files> cd "C:\Users\chris\Desktop\Version Control"
PS C:\Users\chris\Desktop\Version Control> git add index.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update index.html: added project title to welcome page"
[Working 6337389] Update index.html: added project title to welcome page
 4 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshot 2025-12-29 102606.png
 create mode 100644 about.html
 create mode 100644 contact.html
 create mode 100644 index.html
PS C:\Users\chris\Desktop\Version Control>
```

C(a): index.html commit and message.


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update index.html: added project title to welcome page"
[Working 6337389] Update index.html: added project title to welcome page
 4 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshot 2025-12-29 102606.png
 create mode 100644 about.html
 create mode 100644 contact.html
 create mode 100644 index.html
PS C:\Users\chris\Desktop\Version Control> code about.html
PS C:\Users\chris\Desktop\Version Control> git add about.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update about.html: added version control practical"
[Working b772afb] Update about.html: added version control practical
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\chris\Desktop\Version Control>
```

C(b): about.html commit and message.


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

```
 create mode 100644 contact.html
 create mode 100644 index.html
PS C:\Users\chris\Desktop\Version Control> code about.html
PS C:\Users\chris\Desktop\Version Control> git add about.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update about.html: added version control practical"
[Working b772afb] Update about.html: added version control practical
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\chris\Desktop\Version Control> code contact.html
PS C:\Users\chris\Desktop\Version Control> git add contact.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update contact.html: added to contact me"
[Working 3a86dcc] Update contact.html: added to contact me
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\chris\Desktop\Version Control>
```

C(c): contact.html commit and message.

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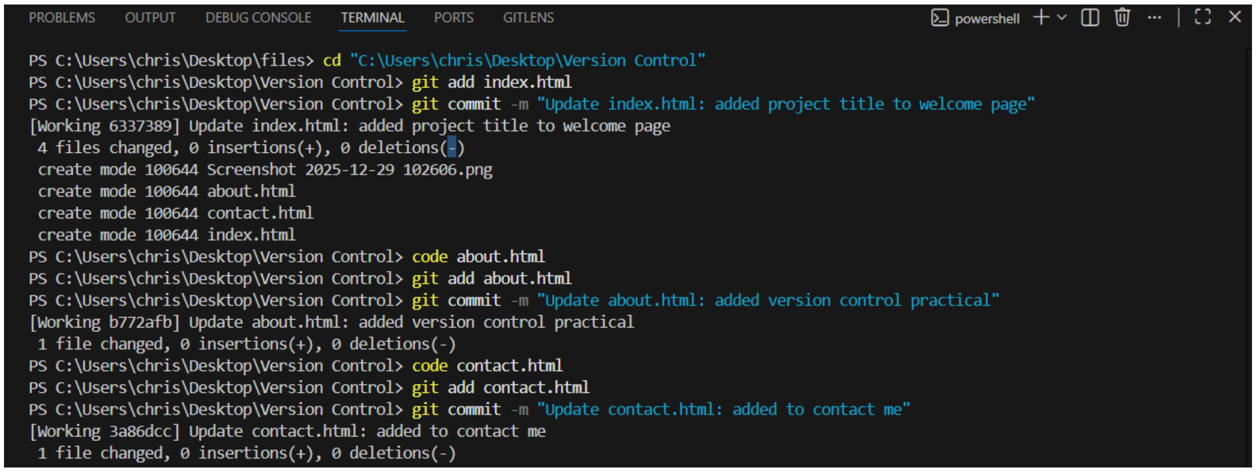
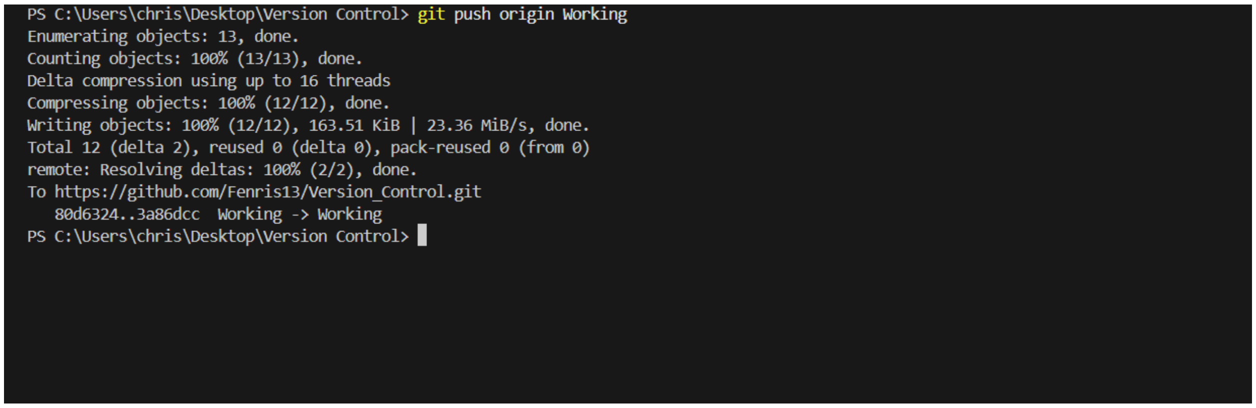


```
PS C:\Users\chris\Desktop\files> cd "C:\Users\chris\Desktop\Version Control"
PS C:\Users\chris\Desktop\Version Control> git add index.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update index.html: added project title to welcome page"
[Working 6337389] Update index.html: added project title to welcome page
 4 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Screenshot 2025-12-29 102606.png
 create mode 100644 about.html
 create mode 100644 contact.html
 create mode 100644 index.html
PS C:\Users\chris\Desktop\Version Control> code about.html
PS C:\Users\chris\Desktop\Version Control> git add about.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update about.html: added version control practical"
[Working b772afb] Update about.html: added version control practical
 1 file changed, 0 insertions(+), 0 deletions(-)
PS C:\Users\chris\Desktop\Version Control> code contact.html
PS C:\Users\chris\Desktop\Version Control> git add contact.html
PS C:\Users\chris\Desktop\Version Control> git commit -m "Update contact.html: added to contact me"
[Working 3a86dcc] Update contact.html: added to contact me
 1 file changed, 0 insertions(+), 0 deletions(-)
```

C(d): Shows all three commit messages.

2. Push the branch to GitLab. Include a screenshot of the command line action and be sure to have your repository name visible in the command prompt.



```
PS C:\Users\chris\Desktop\Version Control> git push origin Working
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 16 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (12/12), 163.51 KiB | 23.36 MiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Fenris13/Version_Control.git
   80d6324..3a86dcc  Working -> Working
PS C:\Users\chris\Desktop\Version Control>
```

C2: Command line showing push to ‘Working’ branch and message following.

Create a New Branch and Make a Change

D. Modify a file on a new branch in your local repository by doing the following:

- create a "Test" branch using the command line interface
- add your student ID to the README.md file
- push the changes to the remote repository in GitLab
- include a screenshot of the command line action and be sure to have your repository name visible in the command prompt

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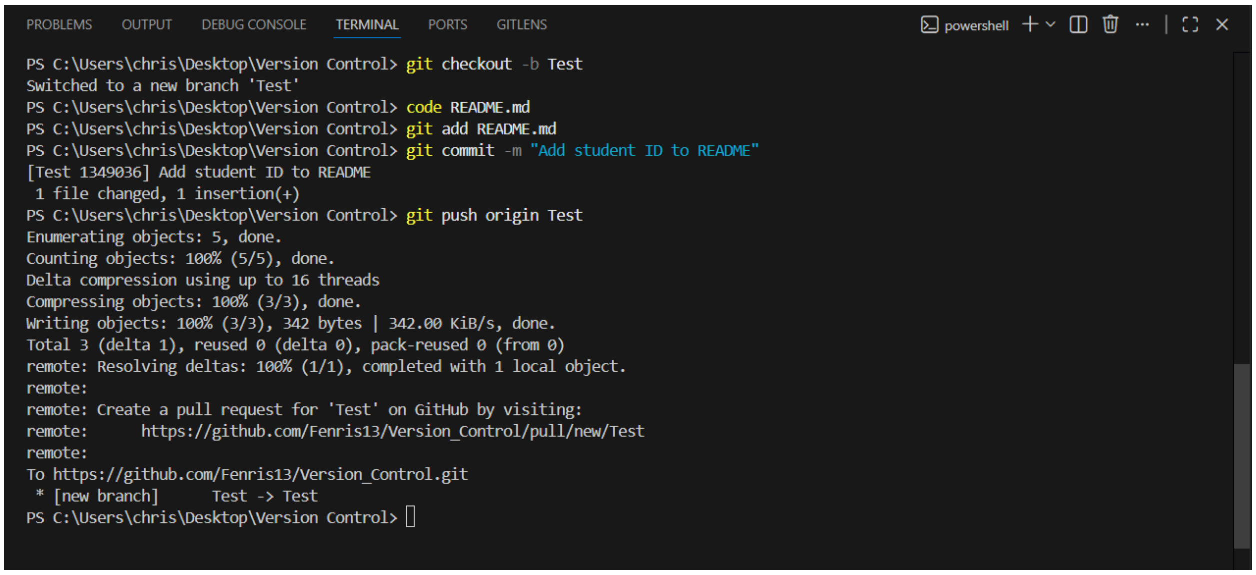
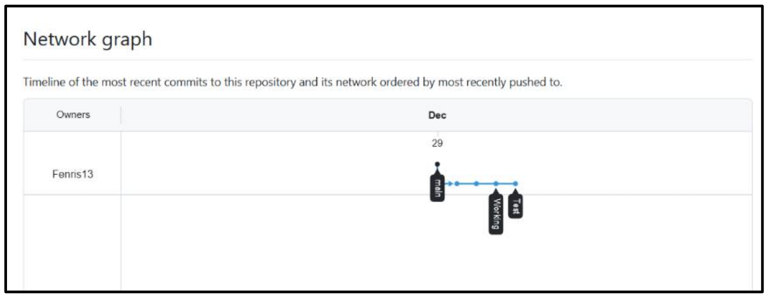


```
PS C:\Users\chris\Desktop\Version Control> git checkout -b Test
Switched to a new branch 'Test'
PS C:\Users\chris\Desktop\Version Control> code README.md
PS C:\Users\chris\Desktop\Version Control> git add README.md
PS C:\Users\chris\Desktop\Version Control> git commit -m "Add student ID to README"
[Test 1349036] Add student ID to README
 1 file changed, 1 insertion(+)
PS C:\Users\chris\Desktop\Version Control> git push origin Test
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 342 bytes | 342.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'Test' on GitHub by visiting:
remote:      https://github.com/Fenris13/Version_Control/pull/new/Test
remote:
To https://github.com/Fenris13/Version_Control.git
 * [new branch]      Test -> Test
PS C:\Users\chris\Desktop\Version Control> 
```

D1: Commit message for README.md file after adding student ID to file. Additionally shows command line action post pushing to repository.

1. Include a screenshot of the current repository graph in GitLab after pushing the changes.


Network graph

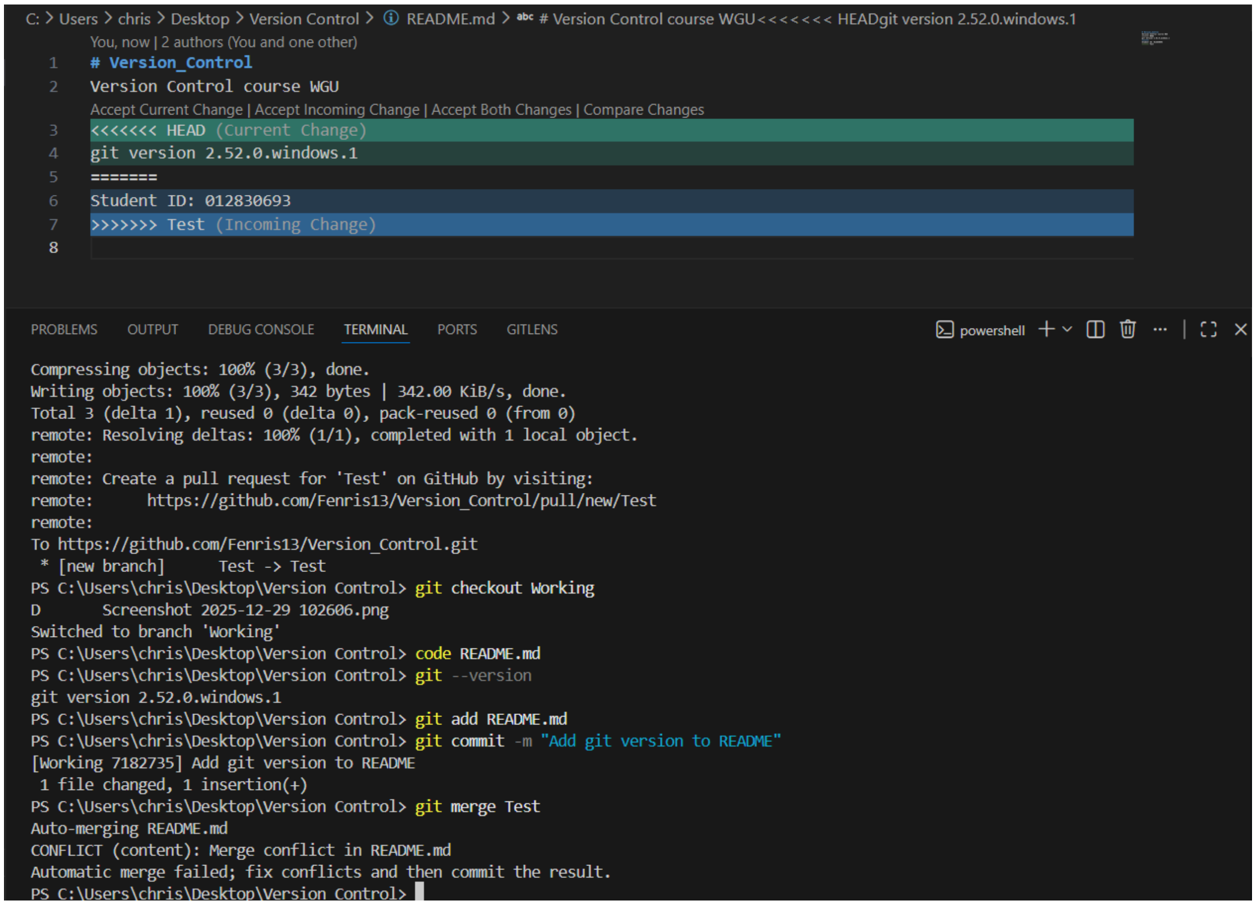
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.

D2: Network graph after pushing changes to README.md file with student ID added.

Simulate a Merge Conflict

E. Introduce a merge conflict with the "Test" branch by doing the following:

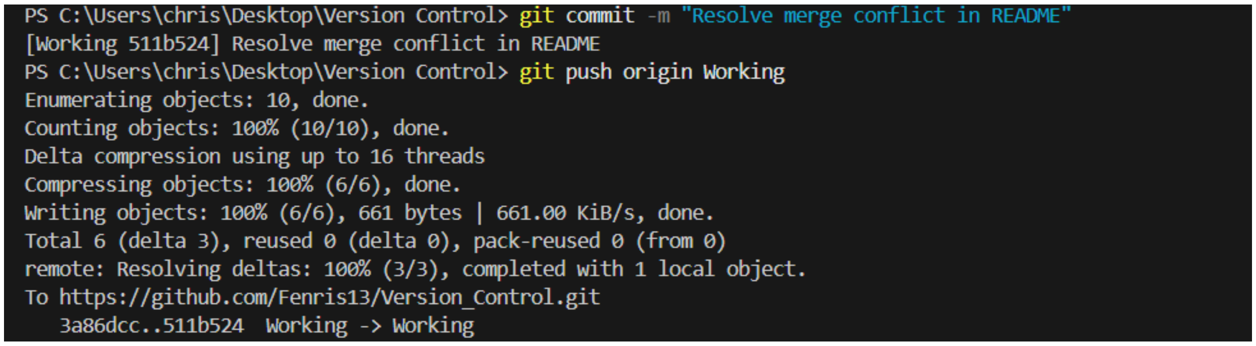
- add the git version number to the README.md file on the Working branch
- merge the "Test" branch to the Working branch in your local repository
- include a screenshot that demonstrates the conflict of this merge command line action and be sure to have your repository name visible in the command prompt



```
C: > Users > chris > Desktop > Version Control > README.md > # Version Control course WGU<<<<<<< HEADgit version 2.52.0.windows.1
You, now | 2 authors (You and one other)
# Version_Control
Version Control course WGU
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
<<<<<<< HEAD (Current Change)
git version 2.52.0.windows.1
=======
Student ID: 012830693
>>>>>>> Test (Incoming Change)
```

```
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 342 bytes | 342.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'Test' on GitHub by visiting:
remote:      https://github.com/Fenris13/Version_Control/pull/new/Test
remote:
To https://github.com/Fenris13/Version_Control.git
 * [new branch]      Test -> Test
PS C:\Users\chris\Desktop\Version Control> git checkout Working
D       Screenshot 2025-12-29 102606.png
Switched to branch 'Working'
PS C:\Users\chris\Desktop\Version Control> code README.md
PS C:\Users\chris\Desktop\Version Control> git --version
git version 2.52.0.windows.1
PS C:\Users\chris\Desktop\Version Control> git add README.md
PS C:\Users\chris\Desktop\Version Control> git commit -m "Add git version to README"
[Working 7182735] Add git version to README
 1 file changed, 1 insertion(+)
PS C:\Users\chris\Desktop\Version Control> git merge Test
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\chris\Desktop\Version Control>
```

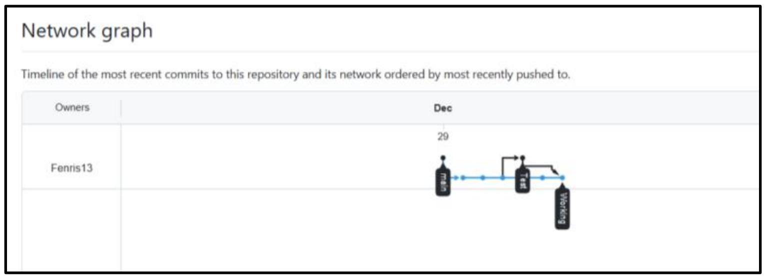
E(a): Simulated merge conflict. This conflict was resolved via VS Code interface by selecting "Accept Both Changes" above the portion where conflict was stated.



```
PS C:\Users\chris\Desktop\Version Control> git commit -m "Resolve merge conflict in README"
[Working 511b524] Resolve merge conflict in README
PS C:\Users\chris\Desktop\Version Control> git push origin Working
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 661 bytes | 661.00 KiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/Fenris13/Version_Control.git
   3a86dcc..511b524  Working -> Working
```

E(b): Command line action following the merge conflict resolution.

1. Resolve the created conflict and push the changes to the Working branch in GitLab. Include a screenshot of the current repository graph in GitLab.

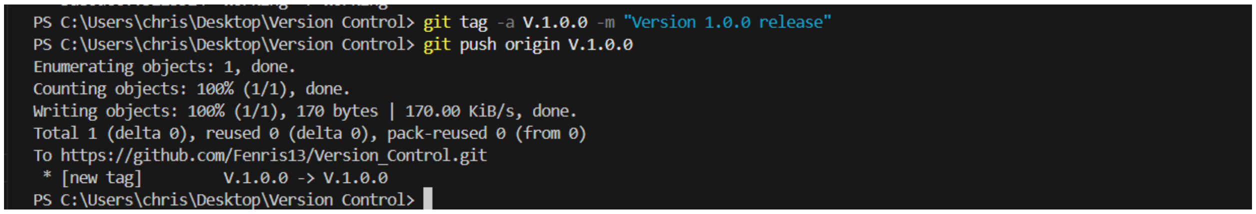

Network graph
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.
Owners
Dec
29
Fenris13
main
Test
Working

E2: Network graph following merge conflict resolution.

Tag a Branch

F. Specify a version for your local repository by doing the following:

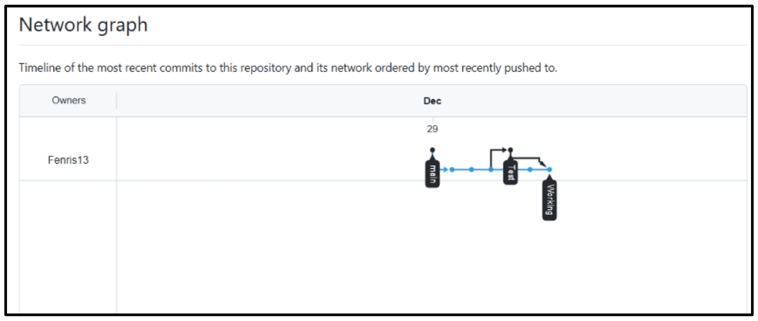
- tag the Working branch as version V.1.0.0
- push the tag to GitLab
- include a screenshot of the command line action and be sure to have your repository name visible in the command prompt



```
PS C:\Users\chris\Desktop\Version Control> git tag -a V.1.0.0 -m "Version 1.0.0 release"
PS C:\Users\chris\Desktop\Version Control> git push origin V.1.0.0
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 170 bytes | 170.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Fenris13/Version_Control.git
 * [new tag]         V.1.0.0 -> V.1.0.0
PS C:\Users\chris\Desktop\Version Control>
```

F: Command line action following branch tagging to “V1.0.0”.

1. Include a screenshot of the current repository graph in GitLab.


Network graph
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.
Owners
Dec
29
Fenris13
main
Test
Working

F1: Network graph following tagging branch to “V.1.0.0”.