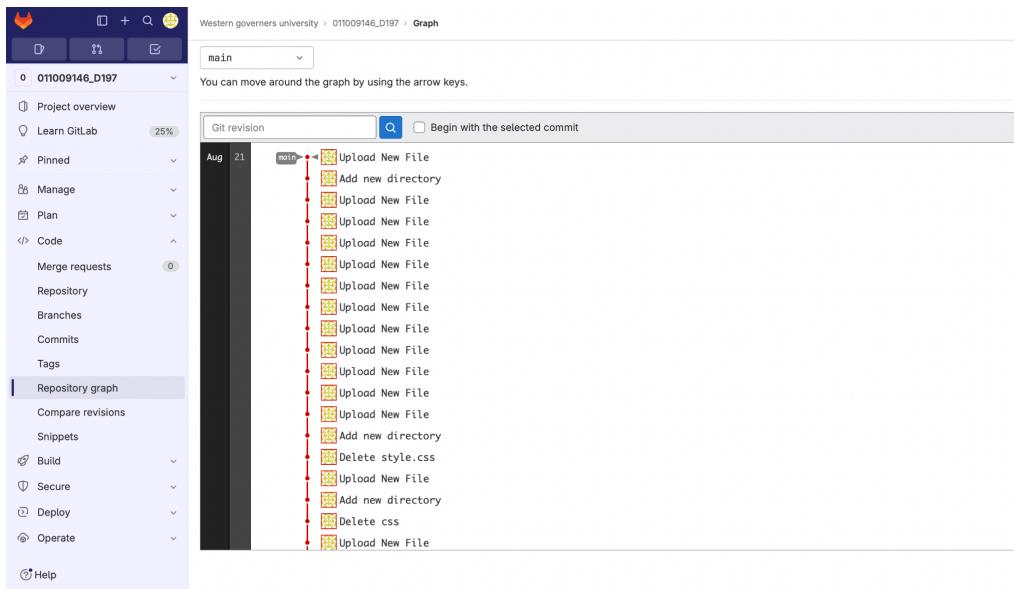
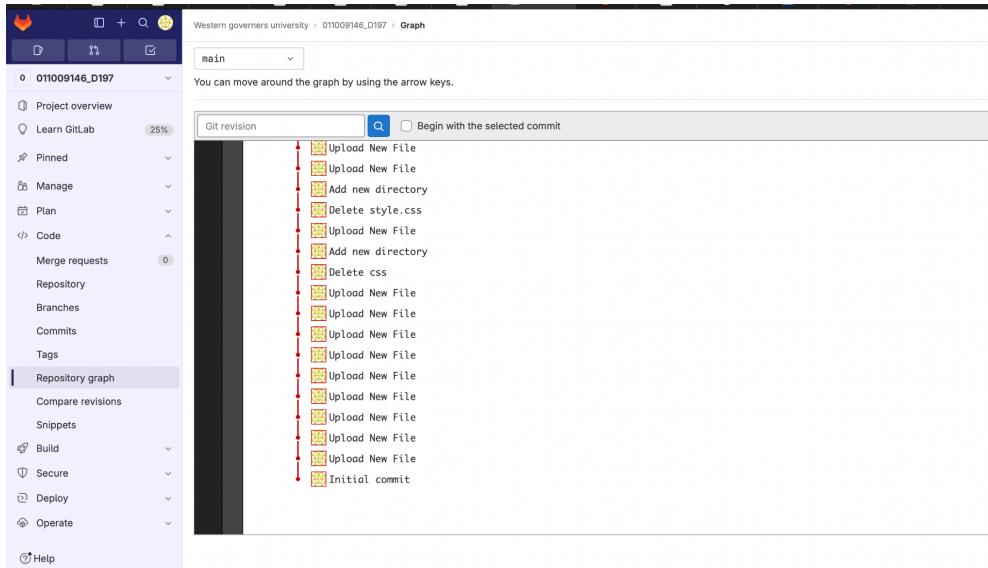


YDM1 — YDM1 TASK 1: VERSION CONTROL USING GIT FOR GITLAB

Prepare Your Repository With Initial Data On GitLab

All uploaded respiratory graph files



Clone Your Repository On Your Local Machine

Local machine cloned on MAC terminal

```
Last login: Mon Jul 31 08:20:19 on ttys000
/dev/fd/12:18: command not found: compdef
jonathanjohnson@Jonathans-Air ~ % cd Desktop
jonathanjohnson@Jonathans-Air Desktop % cd WGU FOLDER
cd: string not in pwd: WGU
jonathanjohnson@Jonathans-Air Desktop % cd WGU FOLDER
cd: no such file or directory: WGU FOLDER
jonathanjohnson@Jonathans-Air Desktop % cd WGU FOLDER
zsh: matches found: https://gitlab.com/western-governors-university/011009146_D197/-/network/main?extended_sha1=
jonathanjohnson@Jonathans-Air Desktop % git clone https://gitlab.com/western-governors-university/011009146_D197.git
Cloning into '011009146_D197'...
Username for 'https://gitlab.com': JonathanJ44
Password for 'https://JonathanJ44@gitlab.com':
remote: Enumerating objects: 72, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 72 (delta 26), reused 0 (delta 0), pack-reused 22
Receiving objects: 100% (72/72), 9.12 Kib | 3.04 MiB/s, done.
Resolving deltas: 100% (34/34), done.
jonathanjohnson@Jonathans-Air WGU FOLDER %
```

Make Changes, Commit, and Push

C. Modify **three** HTML files : that all say <!-- Comment example --> for example and demonstration purposes.

You, 1 second ago | 1 author (You)
1 <!-- Comment example --> You, 1 second ago + Uncommitted changes

```
/dev/fd/13:18: command not found: compdef
jonathanjohnson@Jonathans-Air 011009146_D197 % git status
On branch main
Your branch is up to date with 'origin/main'.

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:   about.html

no changes added to commit (use "git add" and/or "git commit -a")
jonathanjohnson@Jonathans-Air 011009146_D197 % git add about.html
jonathanjohnson@Jonathans-Air 011009146_D197 % git commit -m "A comment describing the changes made."
[main ffb760b] A comment describing the changes made.
  1 file changed, 1 insertion(+)
jonathanjohnson@Jonathans-Air 011009146_D197 %
```

You, 2 minutes ago | 1 author (You)
1 <!-- Comment example --> You, 2 minutes ago + Uncommitted changes

```
[main ffb760b] A comment describing the changes made.
jonathanjohnson@Jonathans-Air 011009146_D197 % git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

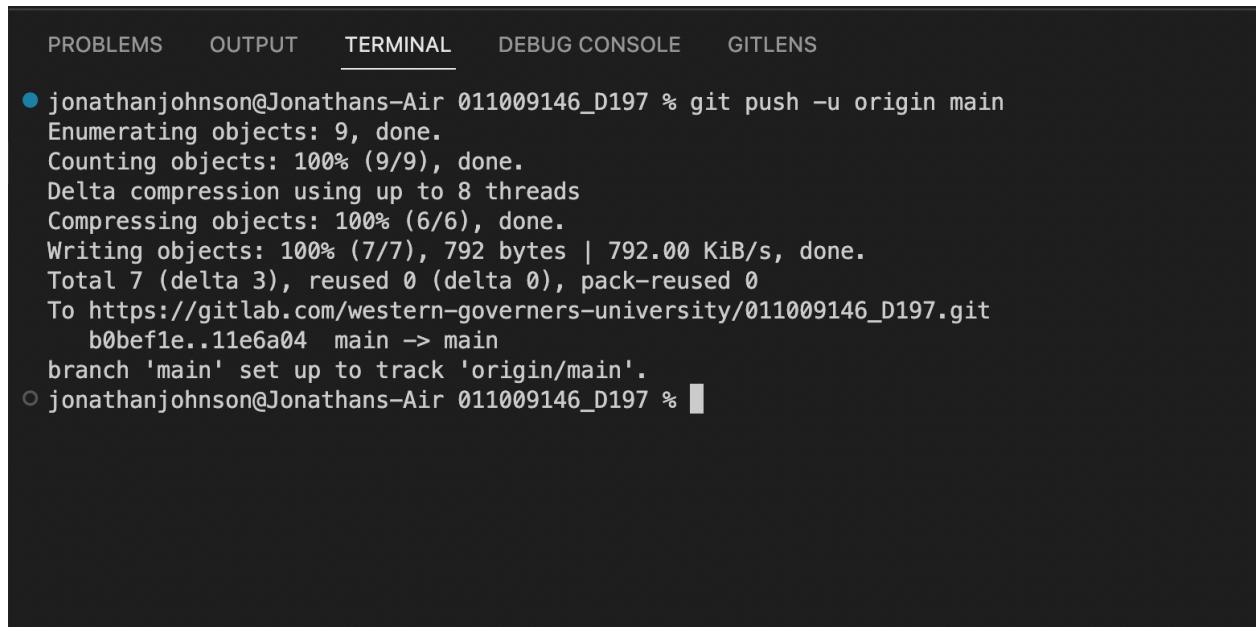
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   contact.html

no changes added to commit (use "git add" and/or "git commit -a")
jonathanjohnson@Jonathans-Air 011009146_D197 % git add contact.html
jonathanjohnson@Jonathans-Air 011009146_D197 % git commit -m "A comment describing the changes made."
[main b0057b4] A comment describing the changes made.
  1 file changed, 1 insertion(+)
jonathanjohnson@Jonathans-Air 011009146_D197 % git status
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

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:   customers.html

no changes added to commit (use "git add" and/or "git commit -a")
jonathanjohnson@Jonathans-Air 011009146_D197 % git add customers.html
jonathanjohnson@Jonathans-Air 011009146_D197 % git commit -m "A comment describing the changes made."
[main 11e6a04] A comment describing the changes made.
  1 file changed, 1 insertion(+)
jonathanjohnson@Jonathans-Air 011009146_D197 %
```

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.

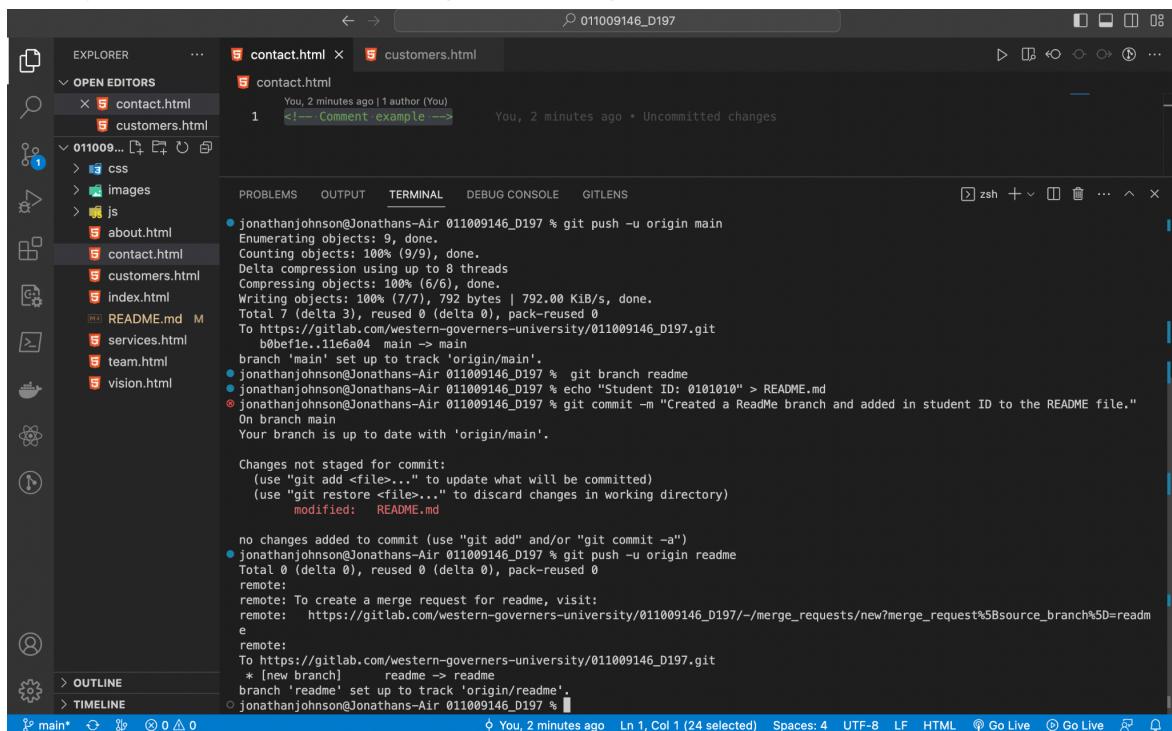


The screenshot shows a terminal window with several tabs at the top: PROBLEMS, OUTPUT, TERMINAL (which is underlined), DEBUG CONSOLE, and GITLENS. The main area of the terminal displays the following command and its output:

```
jonathanjohnson@Jonathans-Air 011009146_D197 % git push -u origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 792 bytes | 792.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/western-governers-university/011009146_D197.git
  b0bef1e..11e6a04 main -> main
branch 'main' set up to track 'origin/main'.
jonathanjohnson@Jonathans-Air 011009146_D197 %
```

Create A Branch and Make a Change

- D. Modify a file on a new branch doing the following:



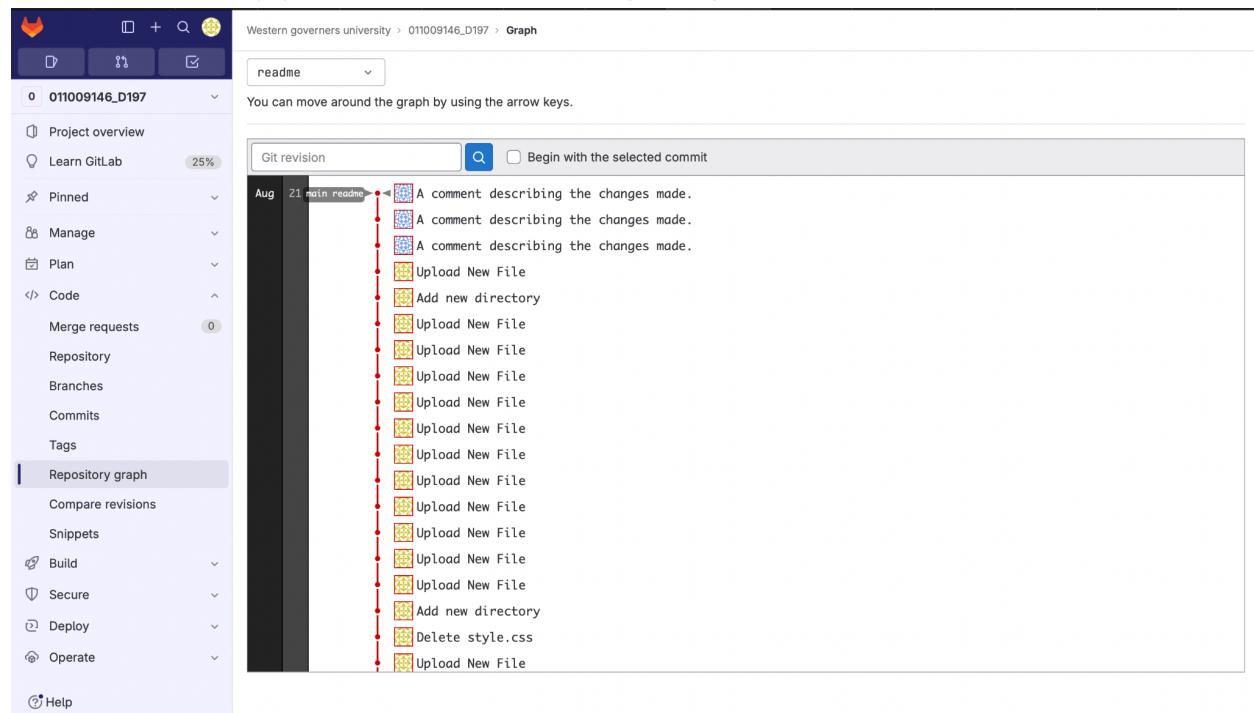
```
You, 2 minutes ago | 1 author (You)
1 <!-- Comment example --> You, 2 minutes ago * Uncommitted changes

jonathanjohnson@Jonathans-Air 011009146_D197 % git push -u origin main
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 792 bytes | 792.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/western-governors-university/011009146_D197.git
  b0bef1e..11e6a04 main => main
branch 'main' set up to track 'origin/main'.
jonathanjohnson@Jonathans-Air 011009146_D197 % git branch readme
jonathanjohnson@Jonathans-Air 011009146_D197 % echo "Student ID: 0101010" > README.md
jonathanjohnson@Jonathans-Air 011009146_D197 % git commit -m "Created a ReadMe branch and added in student ID to the README file."
On branch main
Your branch is up to date with 'origin/main'.

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: README.md

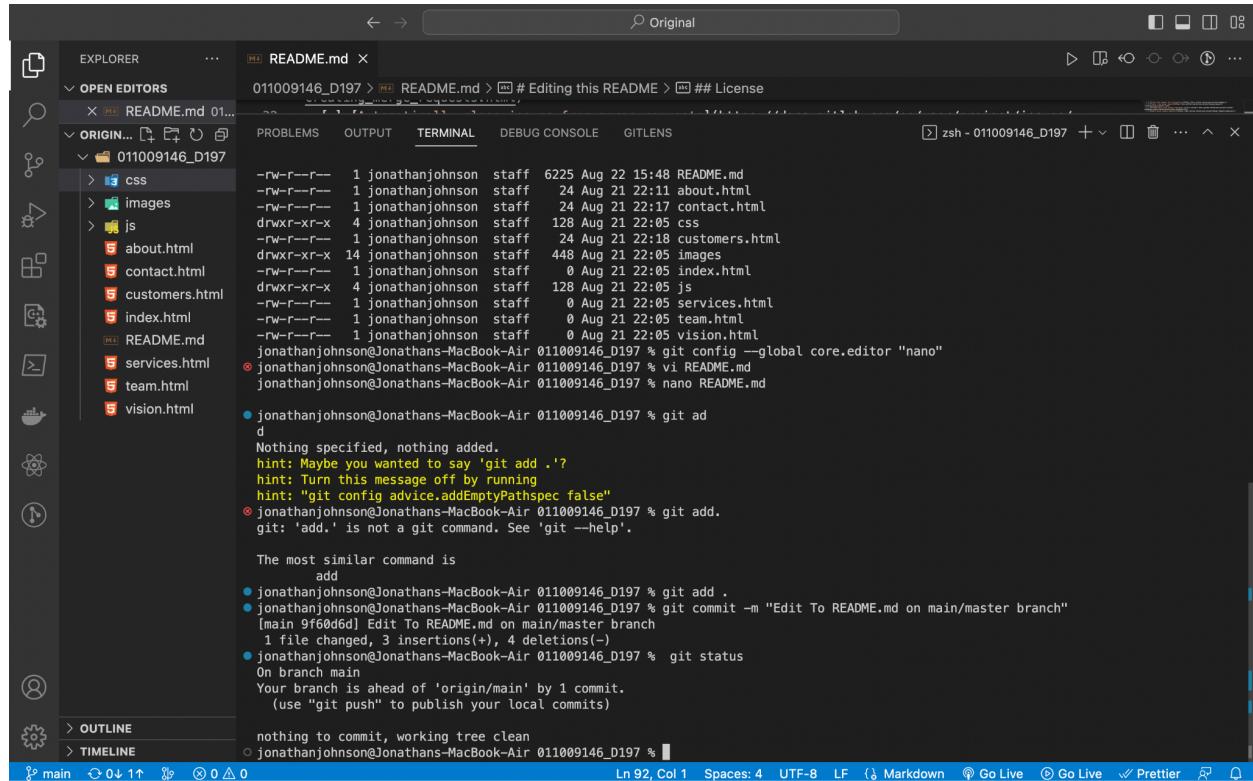
no changes added to commit (use "git add" and/or "git commit -a")
jonathanjohnson@Jonathans-Air 011009146_D197 % git push -u origin readme
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for readme, visit:
remote: https://gitlab.com/western-governors-university/011009146_D197/-/merge_requests/new?merge_request%5Bsource_branch%5D=readme
remote:
To https://gitlab.com/western-governors-university/011009146_D197.git
 * [new branch] readme => readme
branch 'readme' set up to track 'origin/readme'.
jonathanjohnson@Jonathans-Air 011009146_D197 %
```

1. Current repository graph in GitLab after pushing changes.



Simulate A Merge Conflict

- E. Introduce a merge conflict with the “README ” branch:



The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows a file tree for the repository "011009146_D197". The "css", "js", and "index.html" files are expanded, showing their contents.
- Terminal View:** The active tab is "TERMINAL". The output shows a git command being run:

```
011009146_D197 > README.md > # Editing this README > ## License
zsh - 011009146_D197 + ...
```
- Output View:** Shows the results of the git command:

```
-rw-r--r-- 1 jonathanjohnson staff 6225 Aug 22 15:48 README.md
-rw-r--r-- 1 jonathanjohnson staff 24 Aug 21 22:11 about.html
-rw-r--r-- 1 jonathanjohnson staff 24 Aug 21 22:17 contact.html
drwxr-xr-x 4 jonathanjohnson staff 128 Aug 21 22:05 css
-rw-r--r-- 1 jonathanjohnson staff 24 Aug 21 22:18 customers.html
drwxr-xr-x 14 jonathanjohnson staff 448 Aug 21 22:05 images
-rw-r--r-- 1 jonathanjohnson staff 0 Aug 21 22:05 index.html
drwxr-xr-x 4 jonathanjohnson staff 128 Aug 21 22:05 js
-rw-r--r-- 1 jonathanjohnson staff 0 Aug 21 22:05 services.html
-rw-r--r-- 1 jonathanjohnson staff 0 Aug 21 22:05 team.html
-rw-r--r-- 1 jonathanjohnson staff 0 Aug 21 22:05 vision.html
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git config --global core.editor "nano"
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % vi README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % nano README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git add d
Nothing specified, nothing added.
hint: Maybe you wanted to say 'git add .'?
hint: Turn this message off by running
hint: "git config advice.addEmptyPathspec false"
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git add.
git: 'add.' is not a git command. See 'git --help'.
```
- Bottom Status Bar:** Shows "Ln 92, Col 1" and other terminal settings.

1. Resolve the created conflict and push changes to the master branch in GitLab. Include a screenshot of the current repository graph in GitLab.
(MANY PHOTOS DUE TO TROUBLESHOOTING PUSH AND PULL)

The screenshot shows two instances of the Visual Studio Code interface. Both instances have a dark theme and feature a top navigation bar with tabs for PROBLEMS, OUTPUT, TERMINAL, DEBUG CONSOLE, and GITLENS. A search bar labeled 'Original' is positioned at the top center.

Top Window (Terminal View):

```
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git merge readme
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % ls
README.md      contact.html    customers.html   index.html    services.html   vision.html
about.html     css            images          js           team.html
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % cat README.md
<<<<< HEAD
# NOT_MY_STUDENT_ID_D197
git version 2.37.1 (Apple Git-137.1)

## Getting started
To make it easy for you to get started with GitLab, here's a list of recommended next steps.
Already a pro? Just edit this README.md and make it your own. Want to make it easy? [Use the template at the bottom](#editing-this-readme)!

## Add your files
- [ ] [Create](https://docs.gitlab.com/ee/user/project/repository/web_editor.html#create-a-file) or [upload](https://docs.gitlab.com/ee/user/project/repository/web_editor.html#upload-a-file) files
- [ ] [Add files using the command line](https://docs.gitlab.com/ee/gitlab-basics/add-a-file-using-the-command-line) or push an existing Git repository with the following command:
```
cd existing_repo
git remote add origin https://gitlab.com/western-governors-university/011009146_D197.git
git branch -M main
git push -uf origin main
```
## Integrate with your tools
- [ ] [Set up project integrations](https://gitlab.com/western-governors-university/011009146_D197/-/settings/integrations)
## Collaborate with your team
- [ ] [Invite team members and collaborators](https://docs.gitlab.com/ee/user/project/members/)
- [ ] [Create a new merge request](https://docs.gitlab.com/ee/user/project/merge_requests/creating_merge_requests.html)
```

Bottom Window (Terminal View):

```
State if you are open to contributions and what your requirements are for accepting them.

For people who want to make changes to your project, it's helpful to have some documentation on how to get started. Perhaps there is a script that they should run or some environment variables that they need to set. Make these steps explicit. These instructions could also be useful to your future self.

You can also document commands to lint the code or run tests. These steps help to ensure high code quality and reduce the likelihood that the changes inadvertently break something. Having instructions for running tests is especially helpful if it requires external setup, such as starting a Selenium server for testing in a browser.

## Authors and acknowledgment
Show your appreciation to those who have contributed to the project.
## License
For open source projects, say how it is licensed.

-----
Student ID: 0101010
>>>> README
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % vi README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git status
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 4 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

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: README.md

no changes added to commit (use "git add" and/or "git commit -a")
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git add .
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git commit -m "Comment on how you fixed the merge conflict."
[main cd9ed59] Comment on how you fixed the merge conflict.
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git push origin main
To https://gitlab.com/western-governors-university/011009146_D197.git
 ! [rejected]      main -> main (non-fast-forward)
error: failed to push some refs to 'https://gitlab.com/western-governors-university/011009146_D197.git'
```

The screenshot shows a terminal window and a browser window side-by-side.

Terminal Output:

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE GITLENS
```

```
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git push origin main

To https://gitlab.com/western-governors-university/011009146_D197.git
 ! [rejected]      main -> main (non-fast-forward)
error: failed to push some refs to 'https://gitlab.com/western-governors-university/011009146_D197.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git push origin main

To https://gitlab.com/western-governors-university/011009146_D197.git
 ! [rejected]      main -> main (non-fast-forward)
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % ls
README.md  contact.html  customers.html  index.html  services.html  vision.html
about.html  css  images  js  team.html
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % README.md
zsh: command not found: README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % vi README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % vi README.md
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % cat README.md
Student_ID : 011009146
git version 2.37.1 (Apple Git-137.1)
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git add .
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git commit -m "Comment on how you fixed the merge conflict."
[main f5b1abf5] Comment on how you fixed the merge conflict.
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git push origin main

Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 900 bytes | 900.00 KiB/s, done.
Total 7 (delta 4), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/western-governors-university/011009146_D197.git
 56b7161..f5b1abf5  main -> main
jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 %
```

Browser Screenshot:

The browser shows a GitLab repository graph for the commit 011009146_D197. The graph displays a timeline from August 21 to August 22, 2023. It shows a main branch with several commits, including updates to README.md and file uploads. A 'readme' branch is also shown, which has been merged into the main branch. The commits are color-coded and include descriptive messages like 'Comment on how you fixed the merge conflict.' and 'A comment describing the changes made.'

Tag A Branch

F. Specify a version

```
↳ PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE GITLENS

● jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git tag -a "V.1.0.0" -m "Added tag V.1.0.0"
● jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 % git push origin V.1.0.0
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 184 bytes | 184.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/western-governers-university/011009146_D197.git
 * [new tag]      V.1.0.0 -> V.1.0.0
○ jonathanjohnson@Jonathans-MacBook-Air 011009146_D197 %
```

MERGE CONFLICT NEEDED TO BE FIXED TWICE DUE TO PULL AND PUSH ERROR.