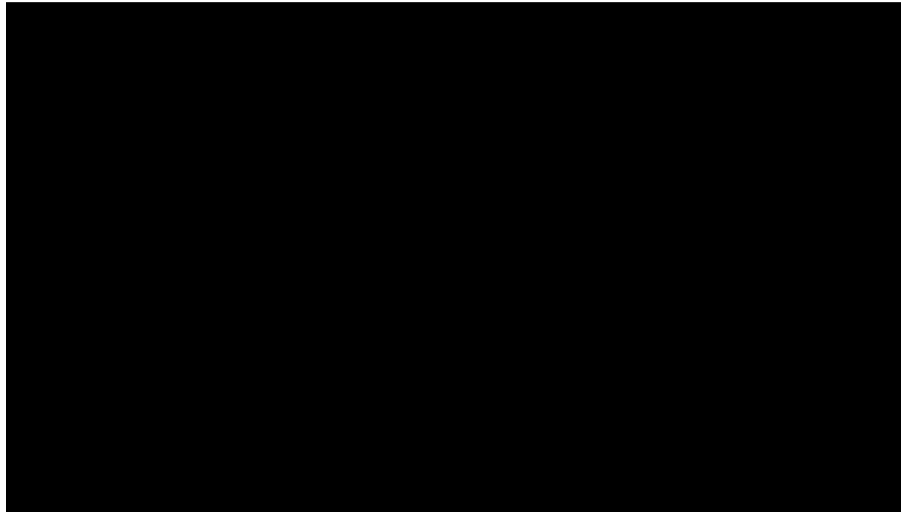
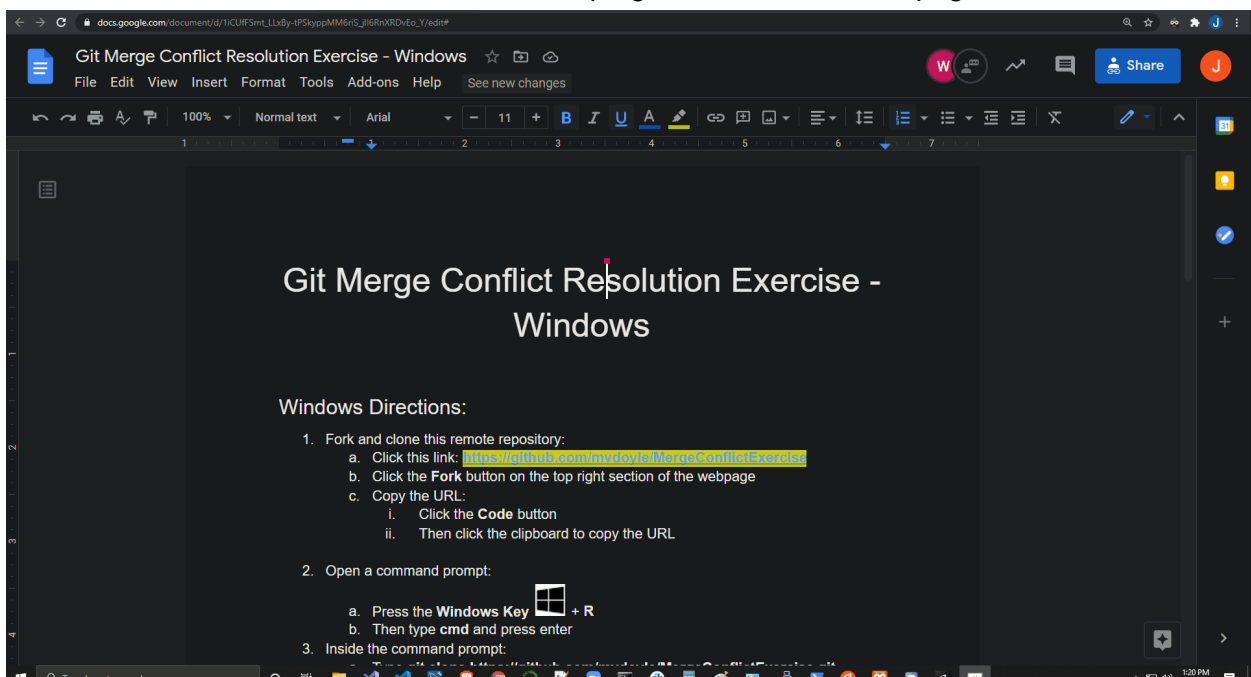


Git Merge Conflict Resolution Exercise Windows



Click the gif above to watch the exercise walkthrough!

1. Fork and clone this remote repository:
 - a. Click this link: <https://github.com/mvdoyle/MergeConflictExercise>
 - b. Click the **Fork** button on the top right section of the webpage



- c. On the next page, make sure the checkbox next to **Copy the main branch only** is **UNCHECKED**

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Owner *



Repository name *

MergeConflictExercise ✓

By default, forks are named the same as their parent repository. You can customize the name to distinguish it further.

Description (optional)

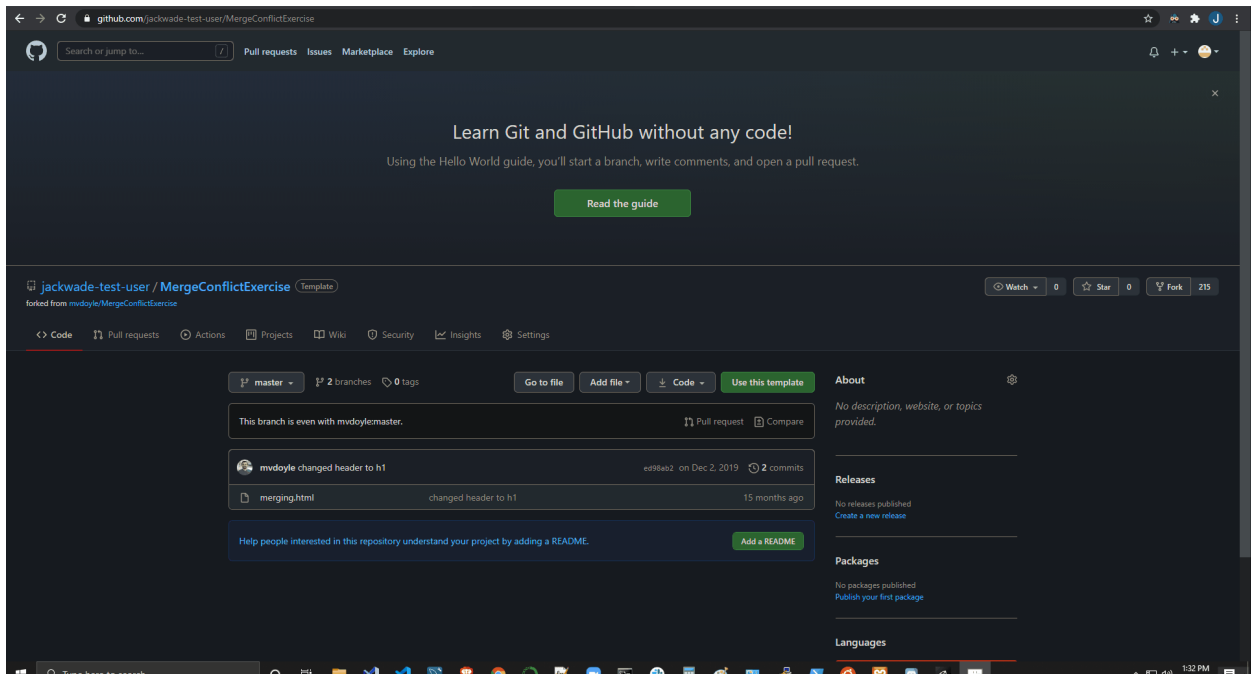
☐ Copy the **main** branch only

Contribute back to mvdoyle/MergeConflictExercise by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

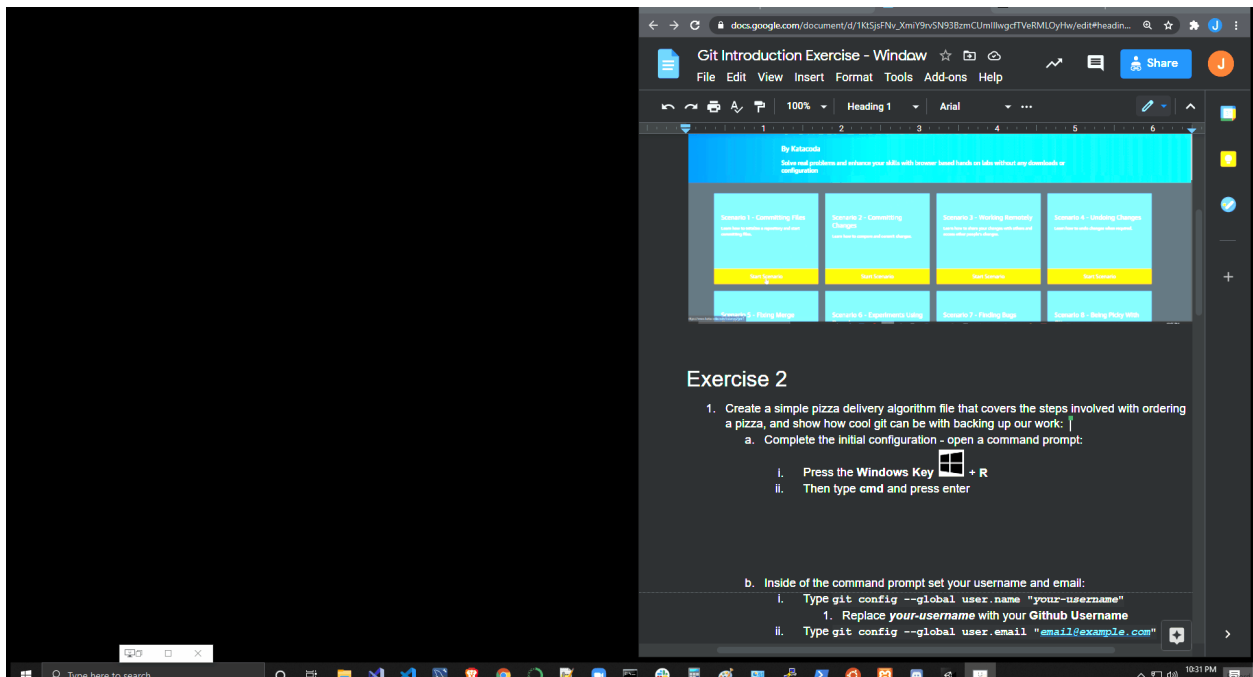
Create fork

- d. Copy the URL:
- Click the **Code** button
 - Then click the clipboard to copy the URL

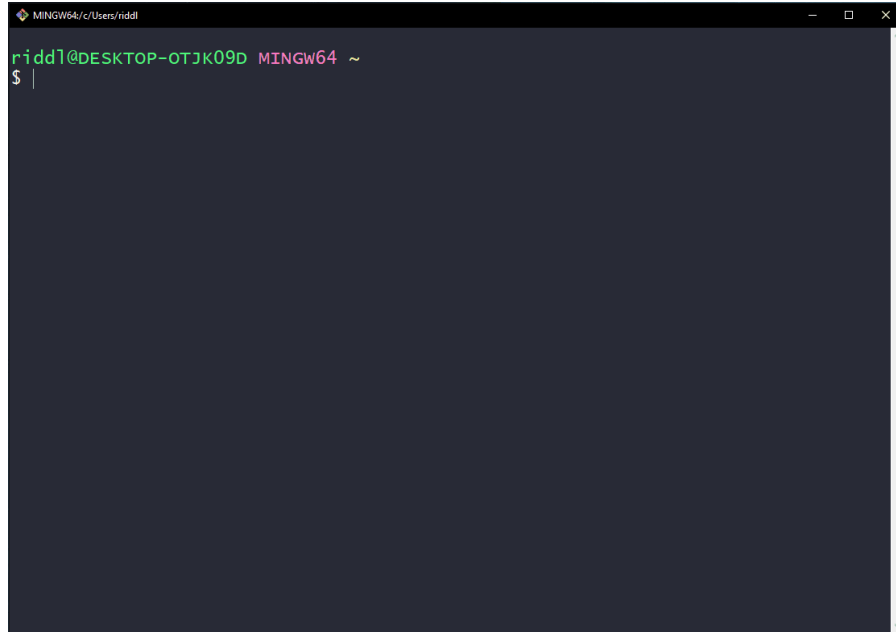


2. Open a command prompt:

- a. Press the **Windows Key**  + R
- b. Then type **cmd** and press enter

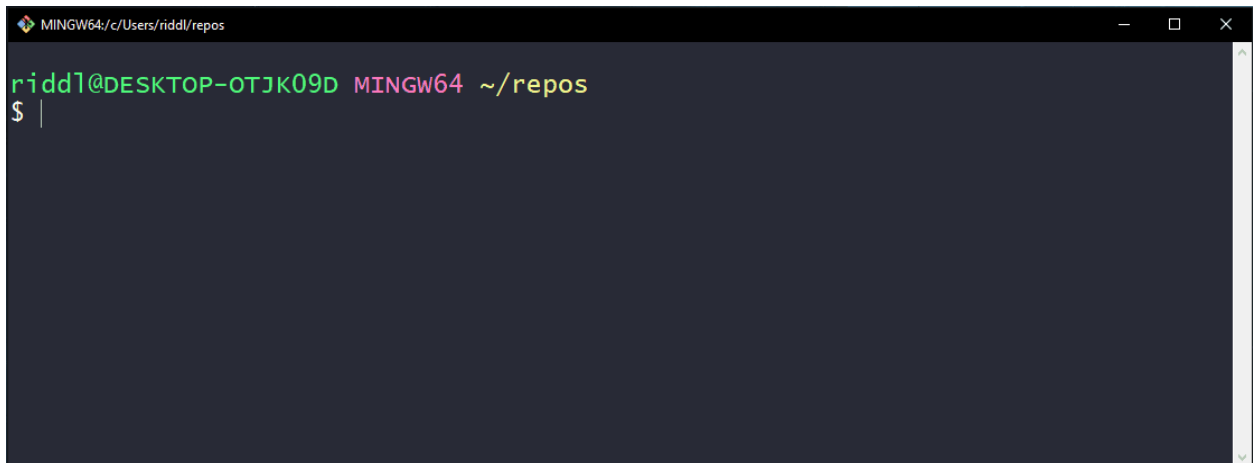


3. Change directory to your repos folder and clone the repository:
 - a. Type **cd repos**
 - b. Then press **enter**
 - c. Type **git clone** then **paste** the URL you copied from the clipboard
 - d. Then press **enter**

A terminal window titled 'MINGW64/c/Users/riddl' with a dark background. The prompt is 'riddl@DESKTOP-OTJK09D MINGW64 ~' and the cursor is on a new line after the '\$' symbol.

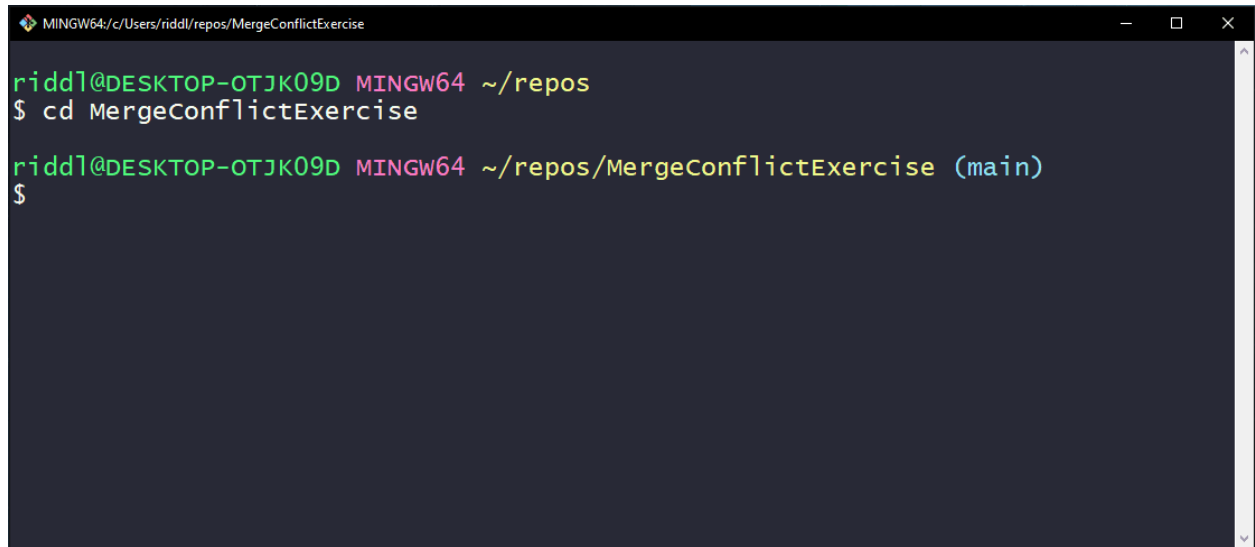
```
MINGW64/c/Users/riddl
riddl@DESKTOP-OTJK09D MINGW64 ~
$
```

4. Change directory into the exercise:
 - a. Type **cd MergeConflictExercise**
 - b. Then press **enter**

A terminal window titled 'MINGW64/c/Users/riddl/repos' with a dark background. The prompt is 'riddl@DESKTOP-OTJK09D MINGW64 ~/repos' and the cursor is on a new line after the '\$' symbol.

```
MINGW64/c/Users/riddl/repos
riddl@DESKTOP-OTJK09D MINGW64 ~/repos
$
```

5. Show ALL the branches (local & remote)
 - a. Type **git branch -a**
 - b. Then press **enter**

A terminal window with a dark background and light-colored text. The title bar at the top reads 'MINGW64: c:/Users/riddl/repos/MergeConflictExercise'. The terminal shows the following commands and output: 'riddl@DESKTOP-OTJK09D MINGW64 ~/repos' followed by '\$ cd MergeConflictExercise', and then 'riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)' followed by '\$'.

```
MINGW64: c:/Users/riddl/repos/MergeConflictExercise

riddl@DESKTOP-OTJK09D MINGW64 ~/repos
$ cd MergeConflictExercise

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$
```

6. Open the **Program.cs** file in **VS Code** (not VS Community)

- i. Choose file
- ii. Choose open folder
- iii. Navigate to the current project
- iv. Then press **enter**

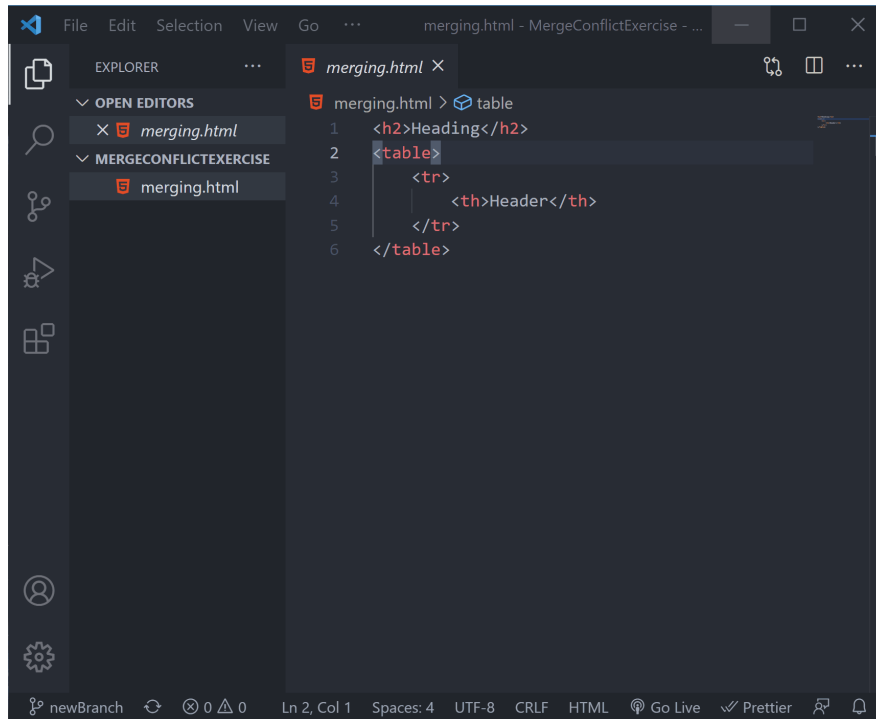
7. Switch to the newBranch:

- a. Type **git checkout newBranch**
- b. Then press **enter**

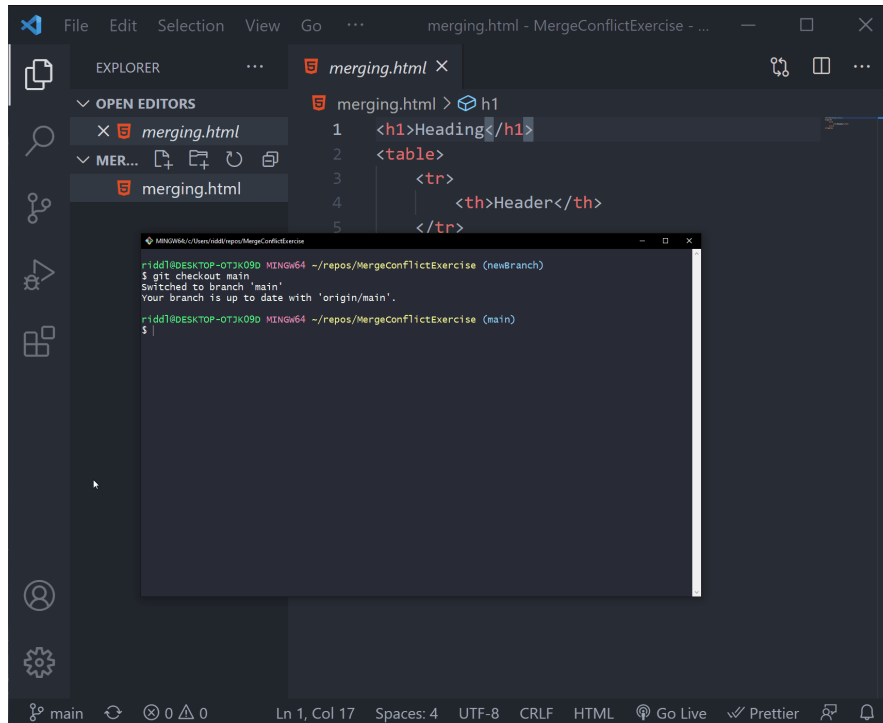
```
MINGW64:~/repos/MergeConflictExercise
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ git branch -a
* main
  newBranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/newBranch

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ |
```

8. Look at the code inside of VS Code:
 - a. Go back into the VS Code editor
 - b. Notice the heading **<h2>Heading</h2>**
9. Switch back to the main branch:
 - a. Type **git checkout main**
 - b. Then press **enter**
 - i. Go back into the VS Code editor
 - ii. Notice the heading is now **<h1>Heading</h1>**

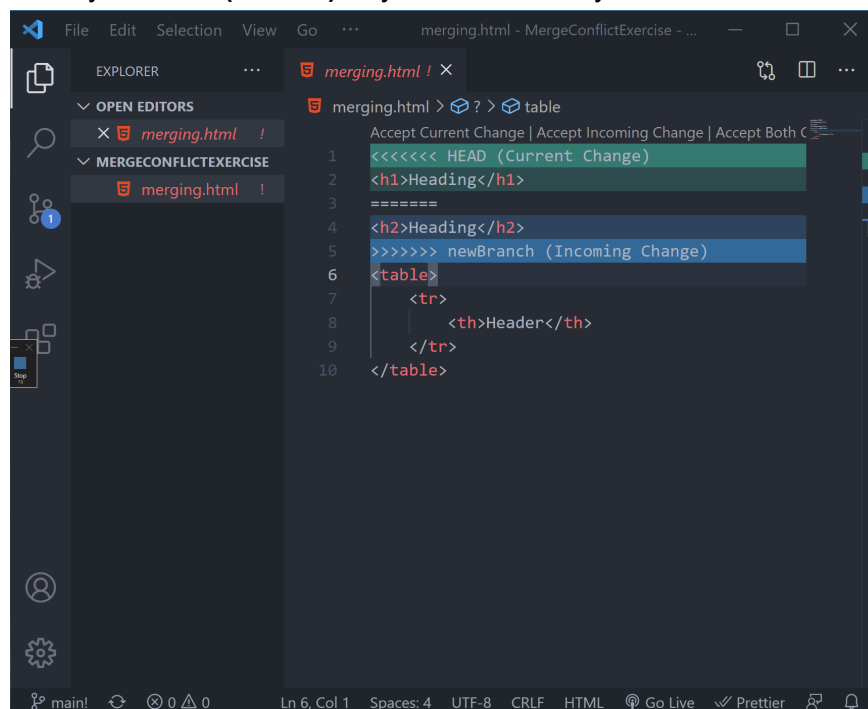


10. Merge the newBranch branch into main branch
 - a. Type **git merge newBranch**
 - b. Then press **enter**
 - c. A **Merge Conflict Error Message** will appear



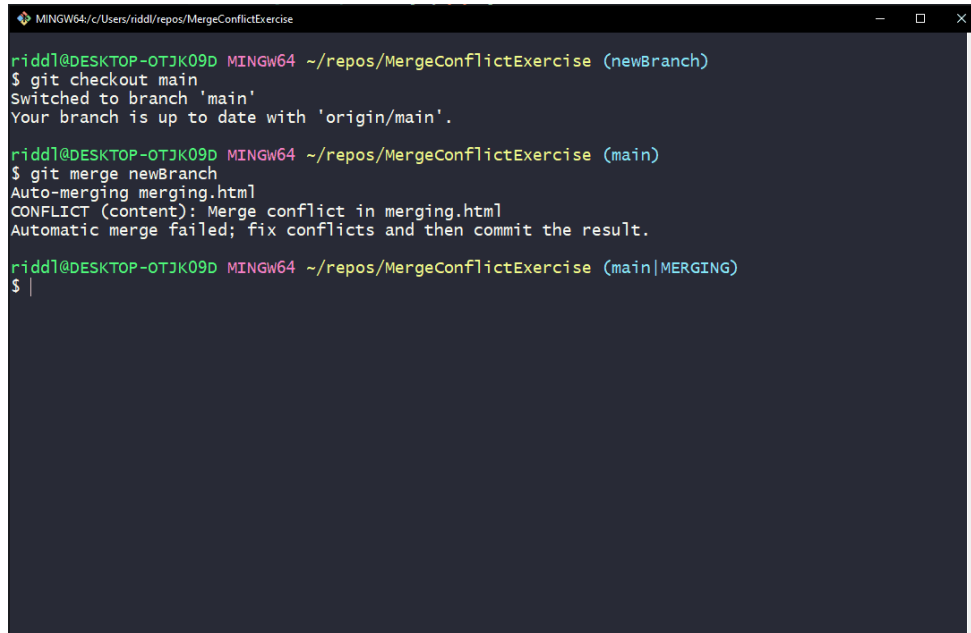
11. Fix the merge conflict inside of VS Code:

- Go back into the VS Code editor
- Click either the **incoming** or **current** option
- Save your work (**ctrl + s**) or you can manually save it **File > Save**



12. Stage your work inside of the command prompt:

- a. Type **git add .**
- b. Then press **enter**



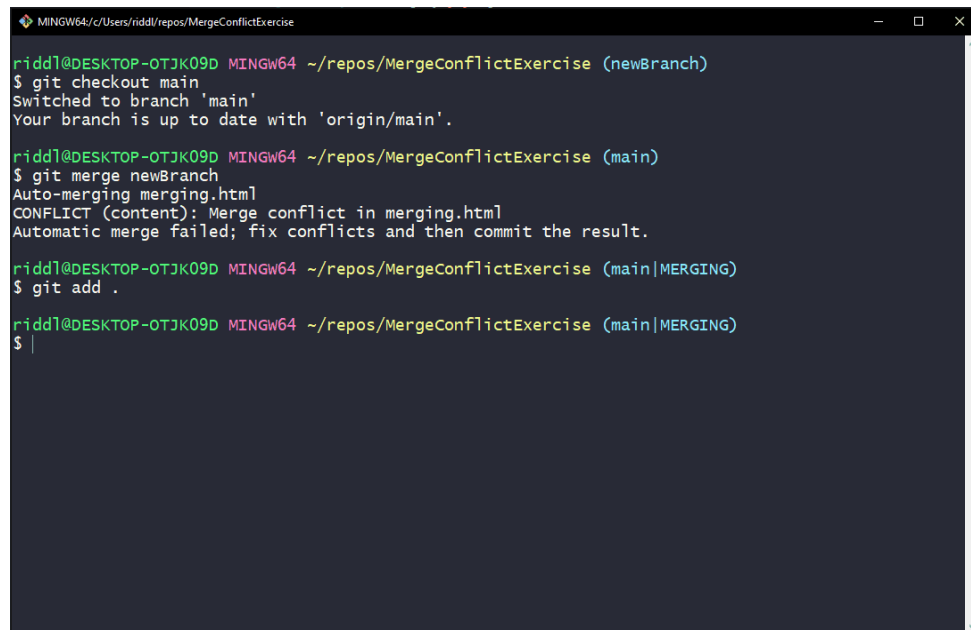
```
MINGW64/c/Users/riddl/repos/MergeConflictExercise
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (newBranch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ git merge newBranch
Auto-merging merging.html
CONFLICT (content): Merge conflict in merging.html
Automatic merge failed; fix conflicts and then commit the result.

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main|MERGING)
$ |
```

13. Commit your work:

- a. Type **git commit -m "initial commit"**
- b. Then press **enter**



```
MINGW64/c/Users/riddl/repos/MergeConflictExercise
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (newBranch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

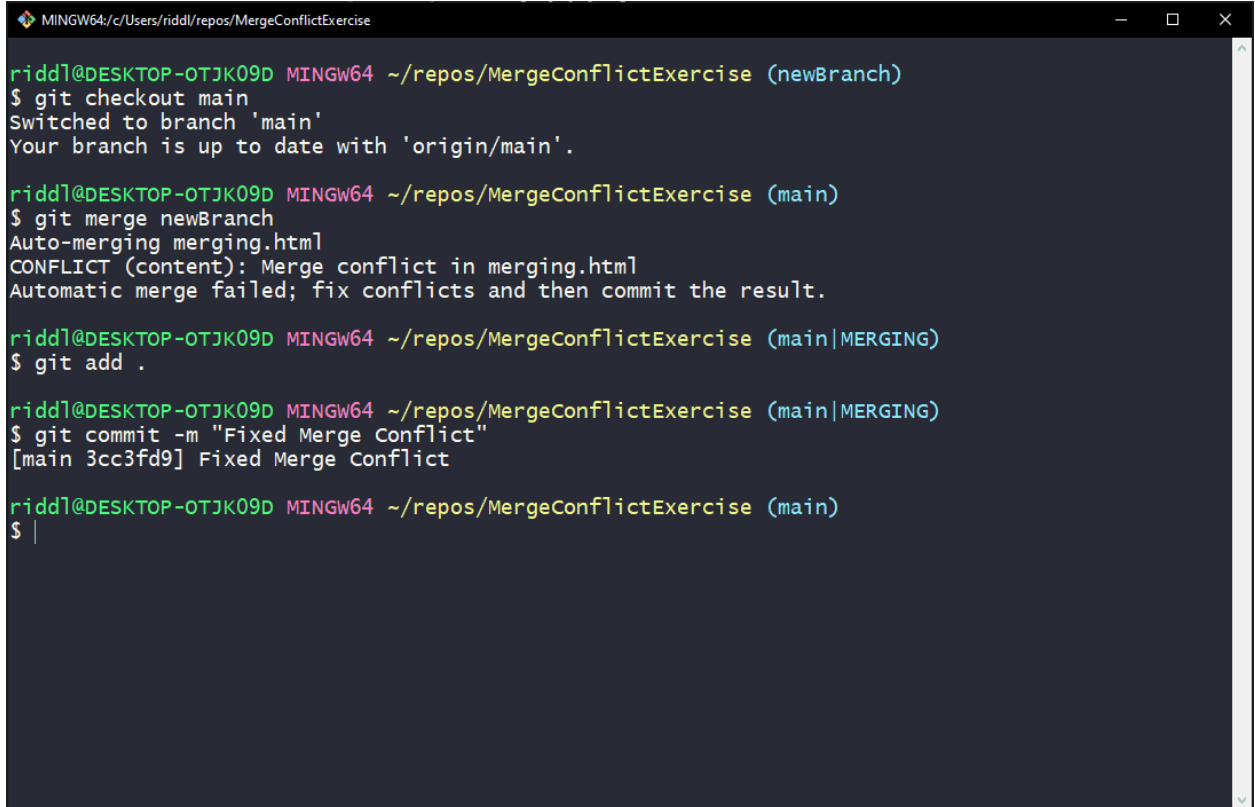
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ git merge newBranch
Auto-merging merging.html
CONFLICT (content): Merge conflict in merging.html
Automatic merge failed; fix conflicts and then commit the result.

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main|MERGING)
$ git add .

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main|MERGING)
$ |
```

14. Push your work back up to your remote repository:

- a. Type **git push**
- b. Then press **enter**

A terminal window titled 'MINGW64/c/Users/riddl/repos/MergeConflictExercise' with standard window controls. The terminal shows a sequence of Git commands and their outputs. The user is currently on the 'main' branch. They attempt to merge 'newBranch', which results in a conflict in 'merging.html'. The conflict is resolved by adding the current state and committing with the message 'Fixed Merge Conflict'.

```
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (newBranch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ git merge newBranch
Auto-merging merging.html
CONFLICT (content): Merge conflict in merging.html
Automatic merge failed; fix conflicts and then commit the result.

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main|MERGING)
$ git add .

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main|MERGING)
$ git commit -m "Fixed Merge Conflict"
[main 3cc3fd9] Fixed Merge Conflict

riddl@DESKTOP-OTJK09D MINGW64 ~/repos/MergeConflictExercise (main)
$ |
```