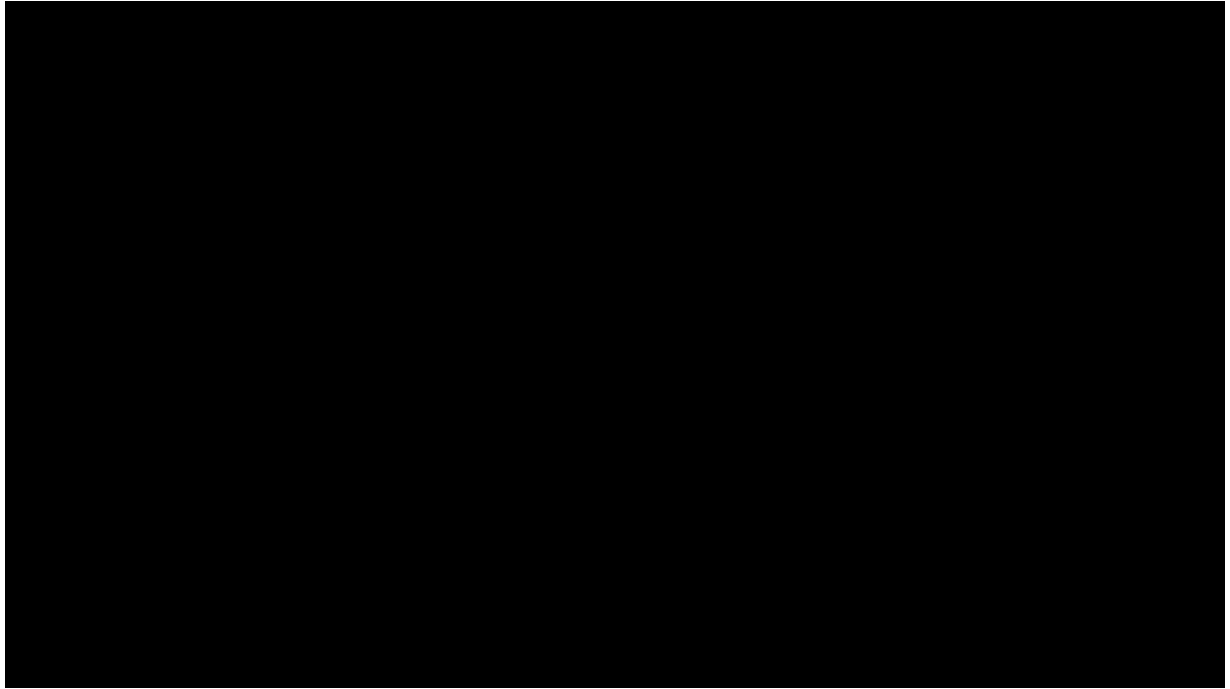


Git Introduction Exercise

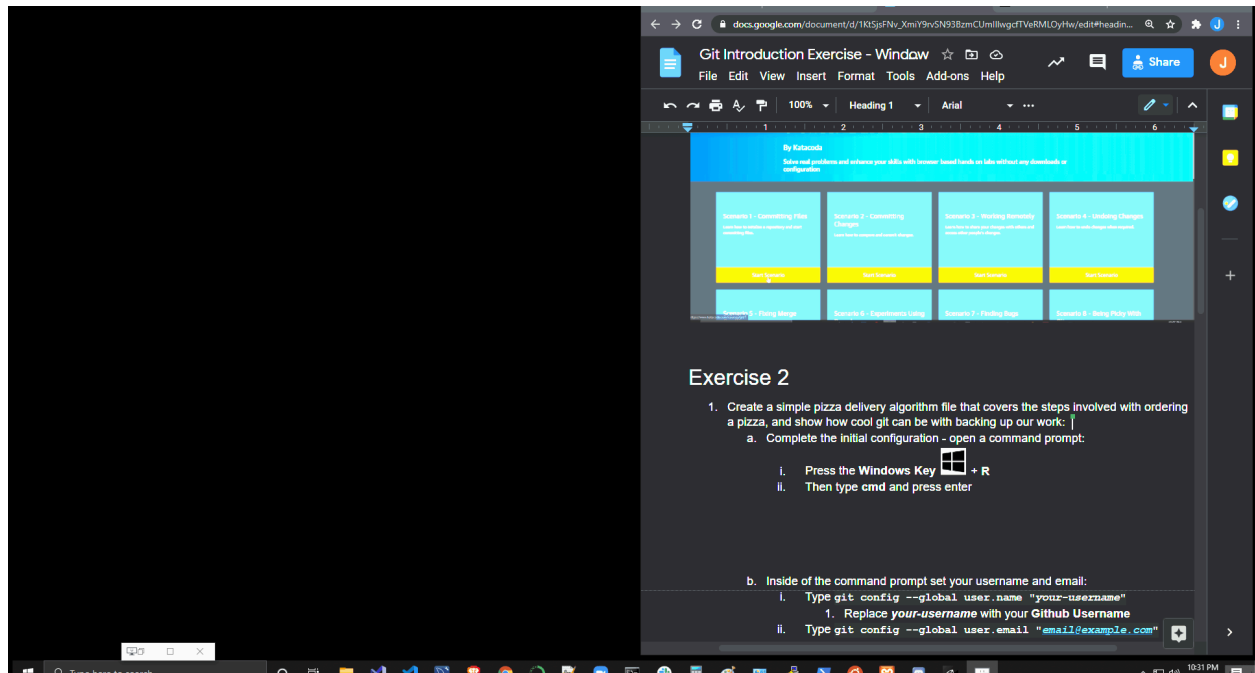
Windows



Click the gif to view the Lecture Video

Exercise

1. Create a simple pizza delivery algorithm file that covers the steps involved with ordering a pizza, and use git to back up your work:
 - a. Complete the initial configuration - open a command prompt:
 - i. Press the **Windows Key**  + R
 - ii. Then type **cmd** and press enter

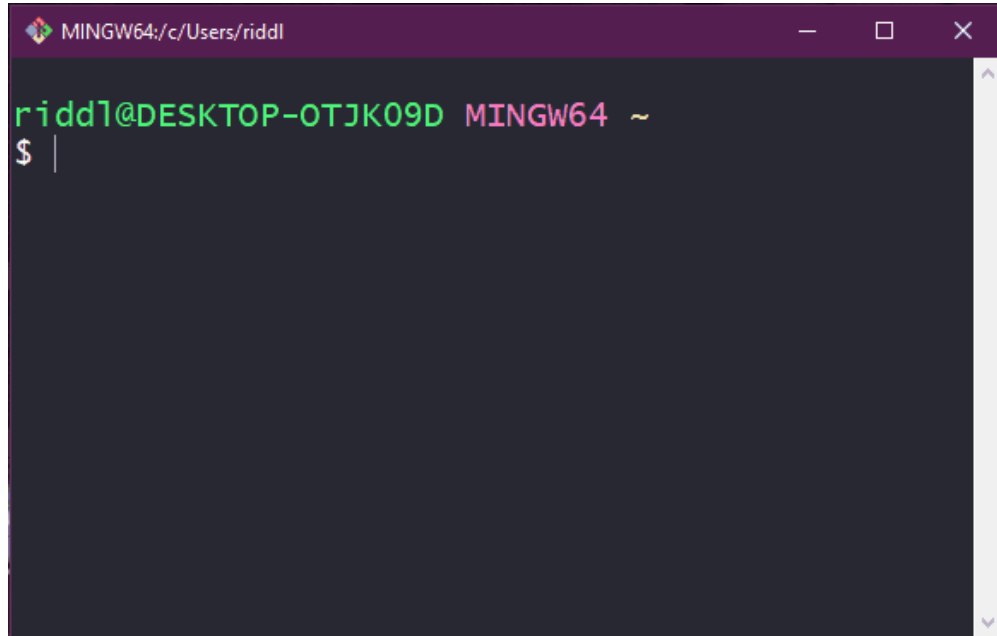


- b. Inside of the command prompt set your username and email:
- i. Type `git config --global user.name "your-username"`
 1. Replace **your-username** with your **Github Username**
 - ii. Type `git config --global user.email "email@example.com"`
 1. Replace **email@example.com** with your **Github Email Address**
 - iii. Type `git config --global init.defaultBranch main`

```
MINGW64/c/Users/riddl

riddl@DESKTOP-OTJK09D MINGW64 ~
$ |
```

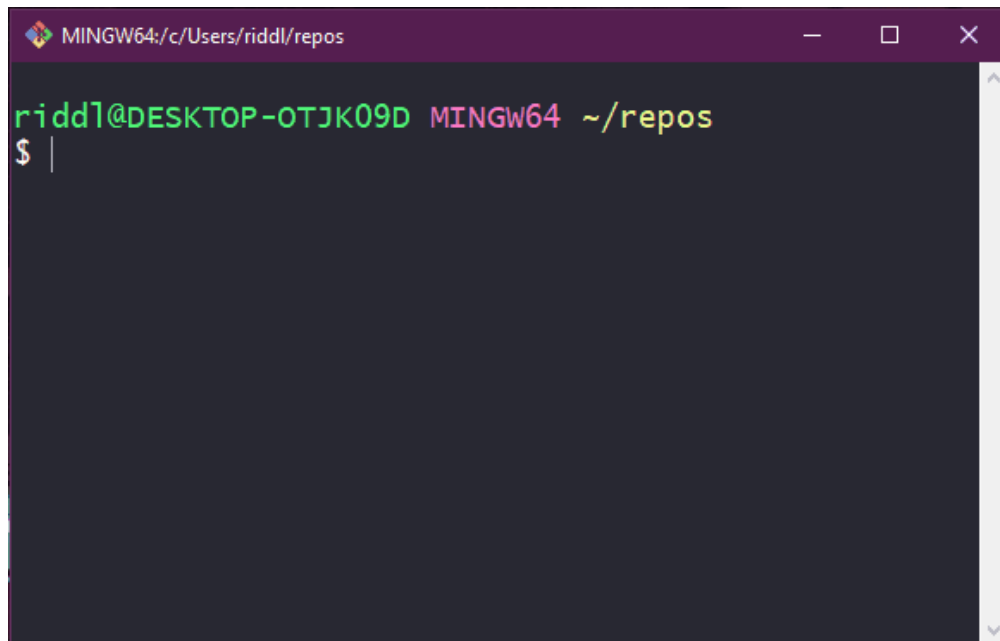
- c. Create a folder named **repos**, short for repository, to **save all of your projects throughout the course**:
- Type **mkdir repos**
 - Then type **cd repos** to change directories to this location



A terminal window titled "MINGW64:/c/Users/riddl" with standard window controls. 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 ~
$ |
```

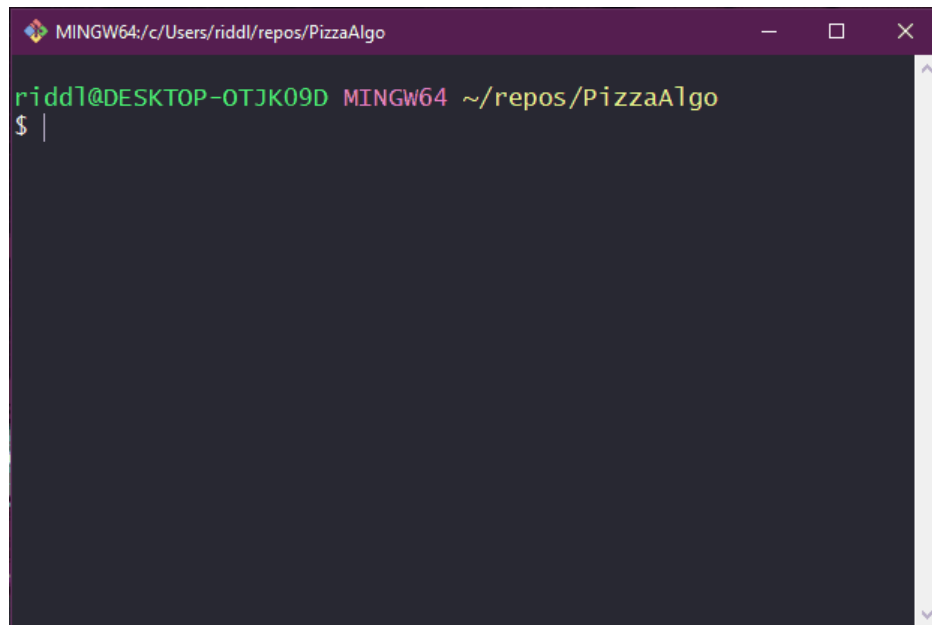
- d. Create a folder to hold this Pizza Algo Project:
- Type **mkdir PizzaAlgo**
 - Then type **cd PizzaAlgo** to change directories to this location



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

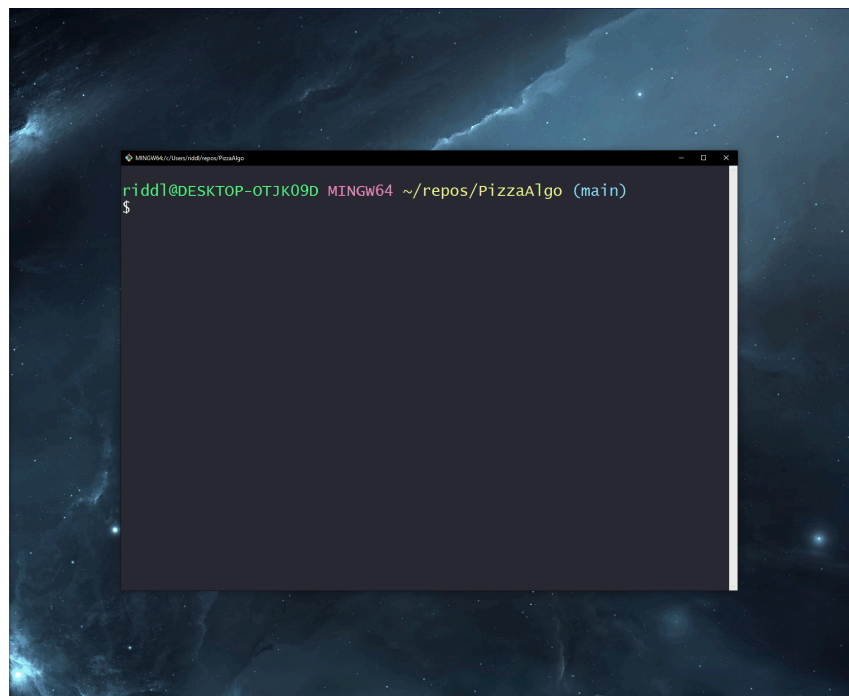
```
MINGW64:/c/Users/riddl/repos
riddl@DESKTOP-OTJK09D MINGW64 ~/repos
$ |
```

- e. Initialize an empty git repository:
 - i. Inside of the command prompt type **git init**
 - ii. Then press **enter**

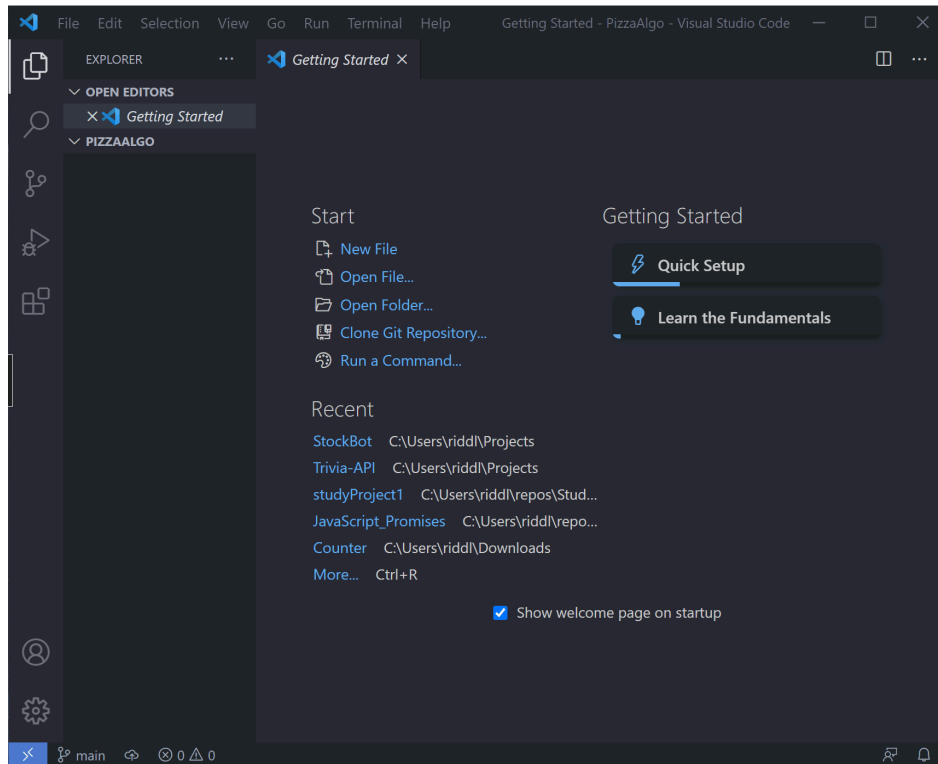


```
MINGW64: c:/Users/riddl/repos/PizzaAlgo
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/PizzaAlgo
$ |
```

- f. Inside of the same command prompt, open VS Code:
 - i. Type **code .**
 - ii. Then press **enter**



2. Add a text file to the PizzaAlgo folder inside VS Code:
 - a. Inside of VS Code, click the **New File** button
 - b. Name the file **Algo.txt**
 - c. Add some text to the file and save:
 - i. Click anywhere inside of the editor and add steps to make a pizza
 - ii. Click the **File** button
 - iii. Then click **save all** or **ctrl + s**



3. Stage and commit your changes in the command prompt:
 - a. Stage your changes:
 - i. Type **git add .**
 - ii. Then press **enter**

```
MINGW64/c/Users/riddl/repos/PizzaAlgo
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/PizzaAlgo (main)
$ code .

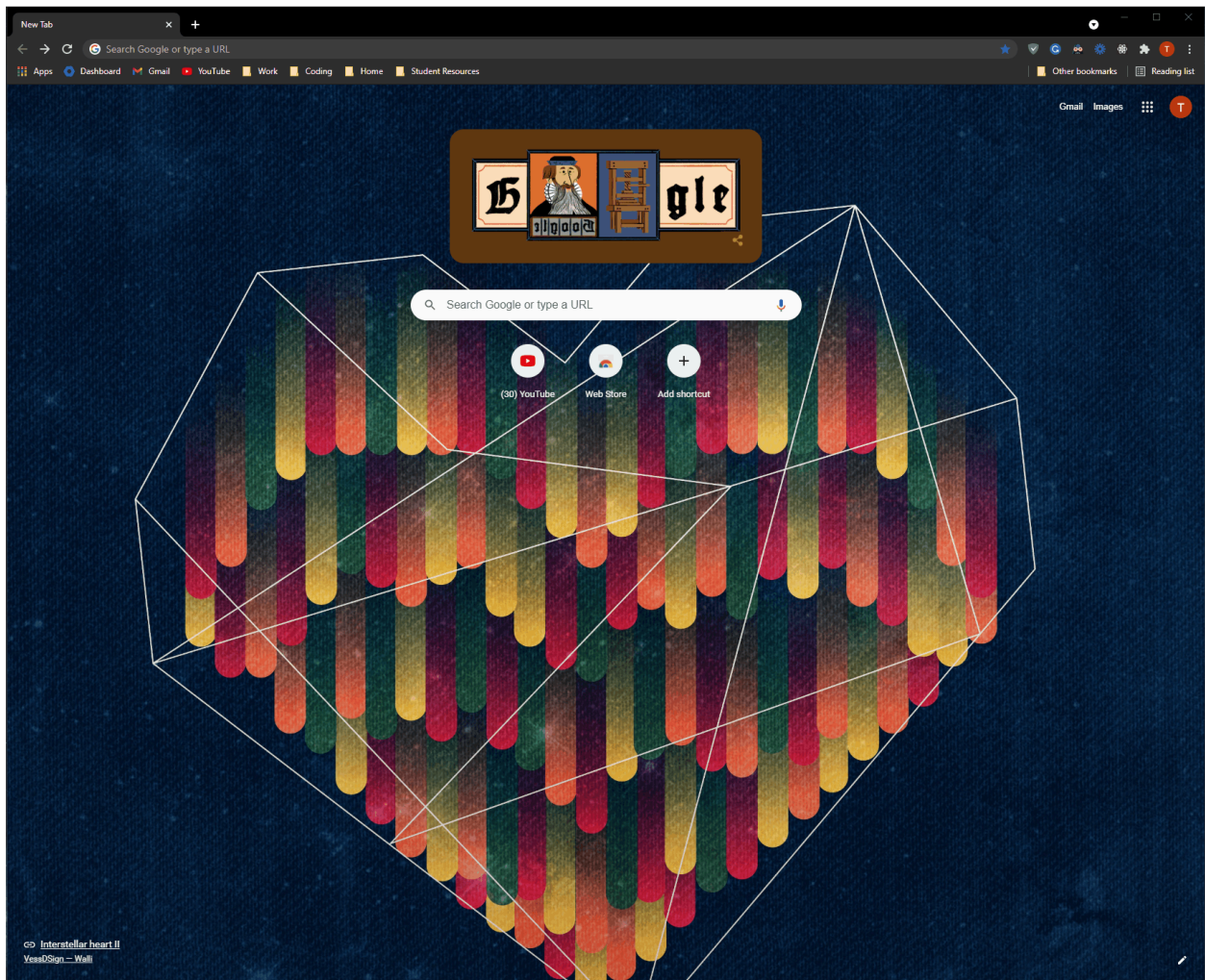
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/PizzaAlgo (main)
$ |
```

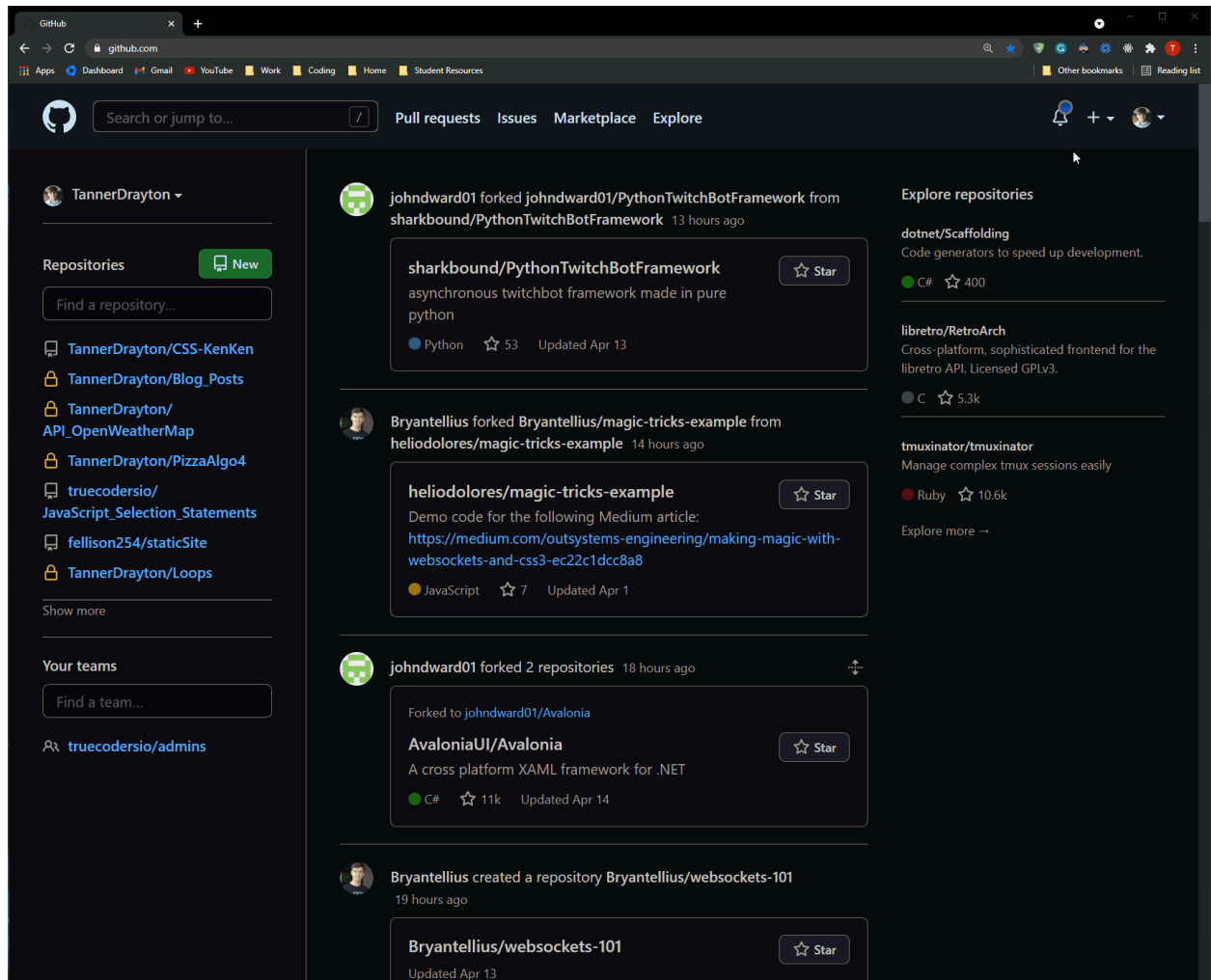
b. Commit your changes:

- i. Type **git commit -m "initial commit"**
- ii. Then press **enter**

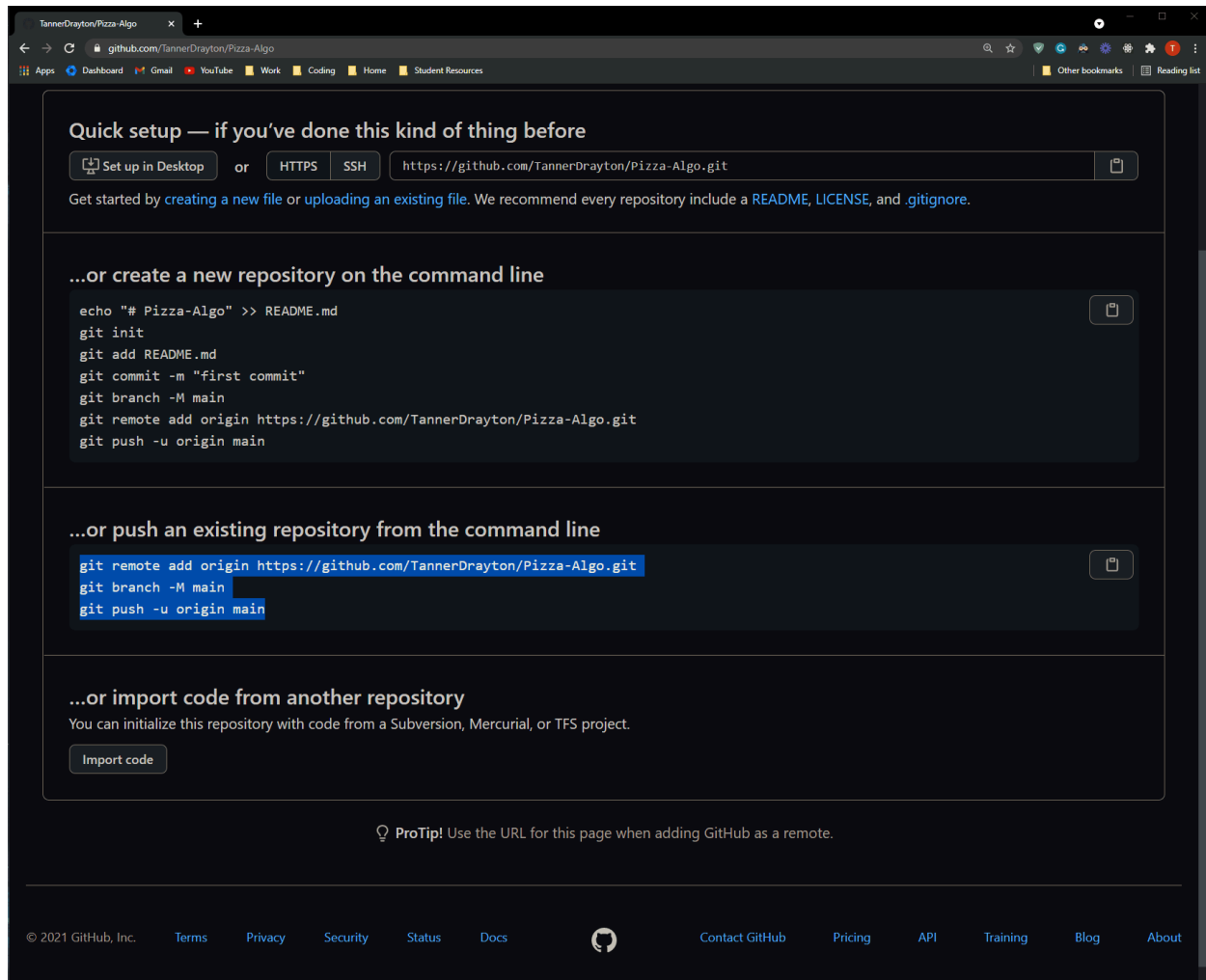
```
MINGW64/c/Users/riddl/repos/PizzaAlgo
riddl@DESKTOP-OTJK09D MINGW64 ~/repos/PizzaAlgo (main)
$ |
```

4. Create a remote repository on GitHub:
 - a. Go to github.com and login
 - b. Click the **+** button in the top right corner next to your profile picture
 - c. Click **New repository**
 - d. Create a unique name for your **remote repository**:
 - e. Type your repository name in the textbox
 - f. Once your name has been validated scroll down and click **Create**





5. Once the page refreshes, scroll down to the second box, click the clipboard, and paste in the command prompt to add, setup the main branch, and push to your remote repository.
 - a. The clipboard is next to the box which says: **...or push an existing repository from the command line**
 - b. When you clicked the clipboard it copied 3 commands
 - c. Paste these 3 commands inside the command prompt:
 - i. **Ctrl + v** or **right click**
 - ii. Then press **enter**



6. Authorize GitHub to allow you to push to GitHub:
 - a. Use the GUI to authenticate your GitHub account
 - b. [Authenticating to GitHub](#)
7. Finally, refresh your github repository to see your code and commit you just made!

Example Answer: <https://github.com/mvdoyle/PizzaAlgo>

Work Cited:

About Version Control

<https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control>

Git Cheat Sheet

<https://education.github.com/git-cheat-sheet-education.pdf>

Getting Started Documentation and Tutorial:

https://www.learnenough.com/git-tutorial/getting_started