COP 4005 – Committing to GitHub with Git Bash

Introduction

The purpose of this document is to provide the necessary information to commit to a GitHub repository using Git Bash. There are many ways of committing to a repository, this being one of them. This guide will show step by step how to install Git Bash and make your first commit.

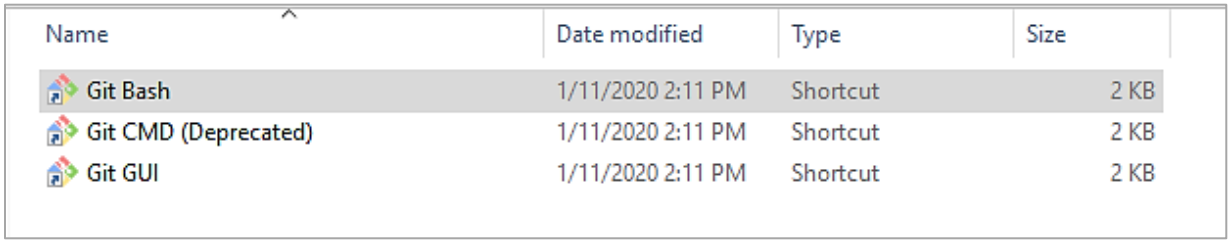
Instructions

0) Make sure you have a GitHub account using your FIU email address https://github.com/

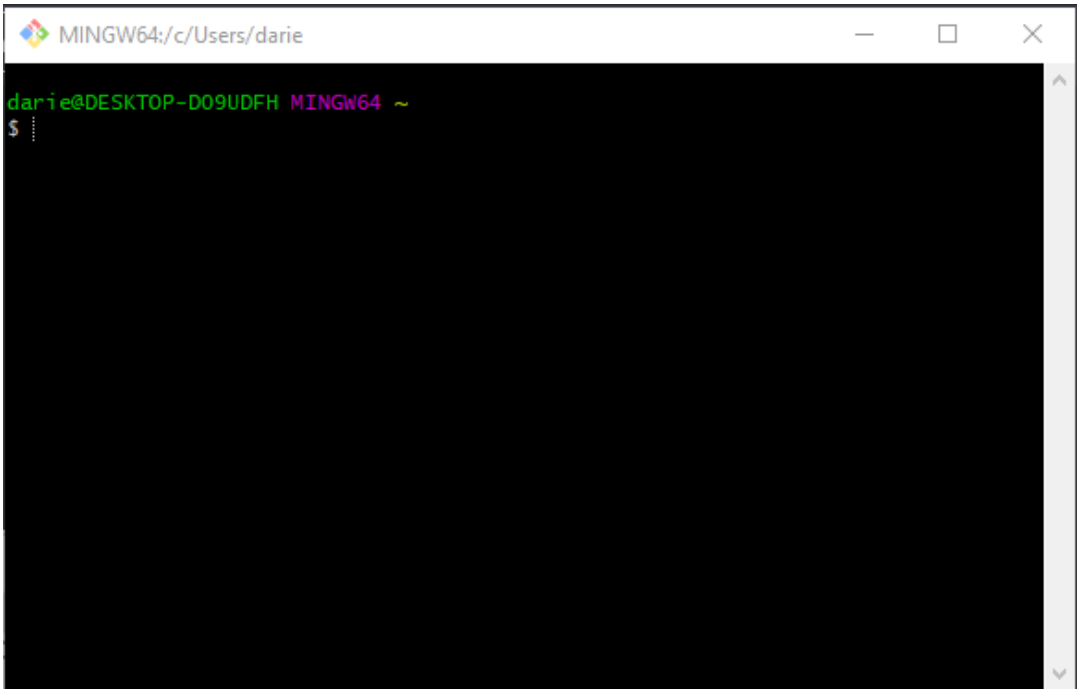
1) Download the Git dependency on their website at https://git-scm.com/downloads - This is a client that will allow you to run Git commands from Mac, Windows, and Linux. – USE THE DEFAULT INSTALLATION OPTIONS for an easier experience.

2) The download will install Git Bash and Git GUI, we will be using Git Bash

(Figure 1)



(Figure 2 - For those familiar with Linux, you can use Linux commands to navigate the directories)

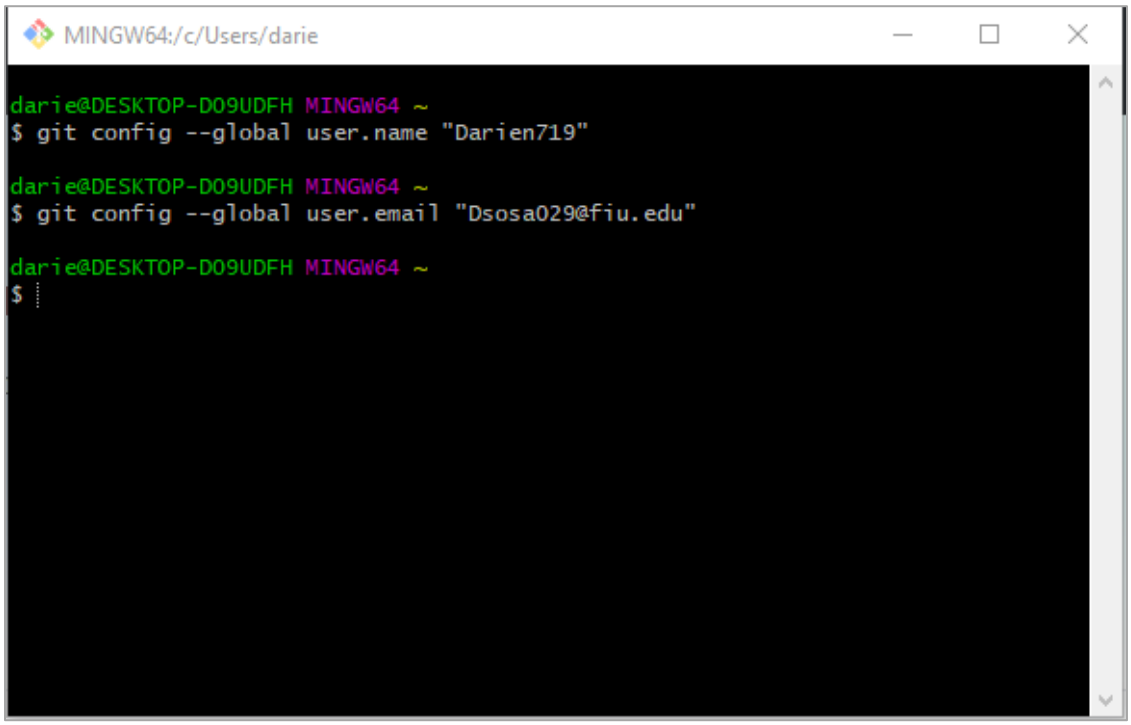


3) Before committing you must configure Git Bash to have your username and email (this can be found in your GitHub profile) using these commands – Use the global flag if you do not want to do it for every repository

Set your username:
git config --global user.name "FIRST_NAME LAST_NAME"

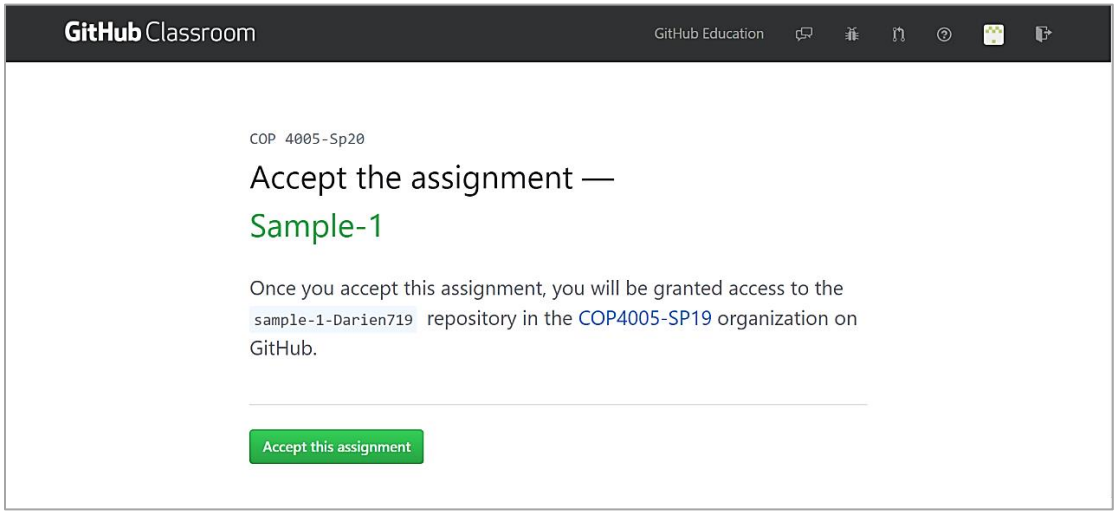
Set your email address:
git config --global user.email MY_NAME@example.com

(Figure 3)



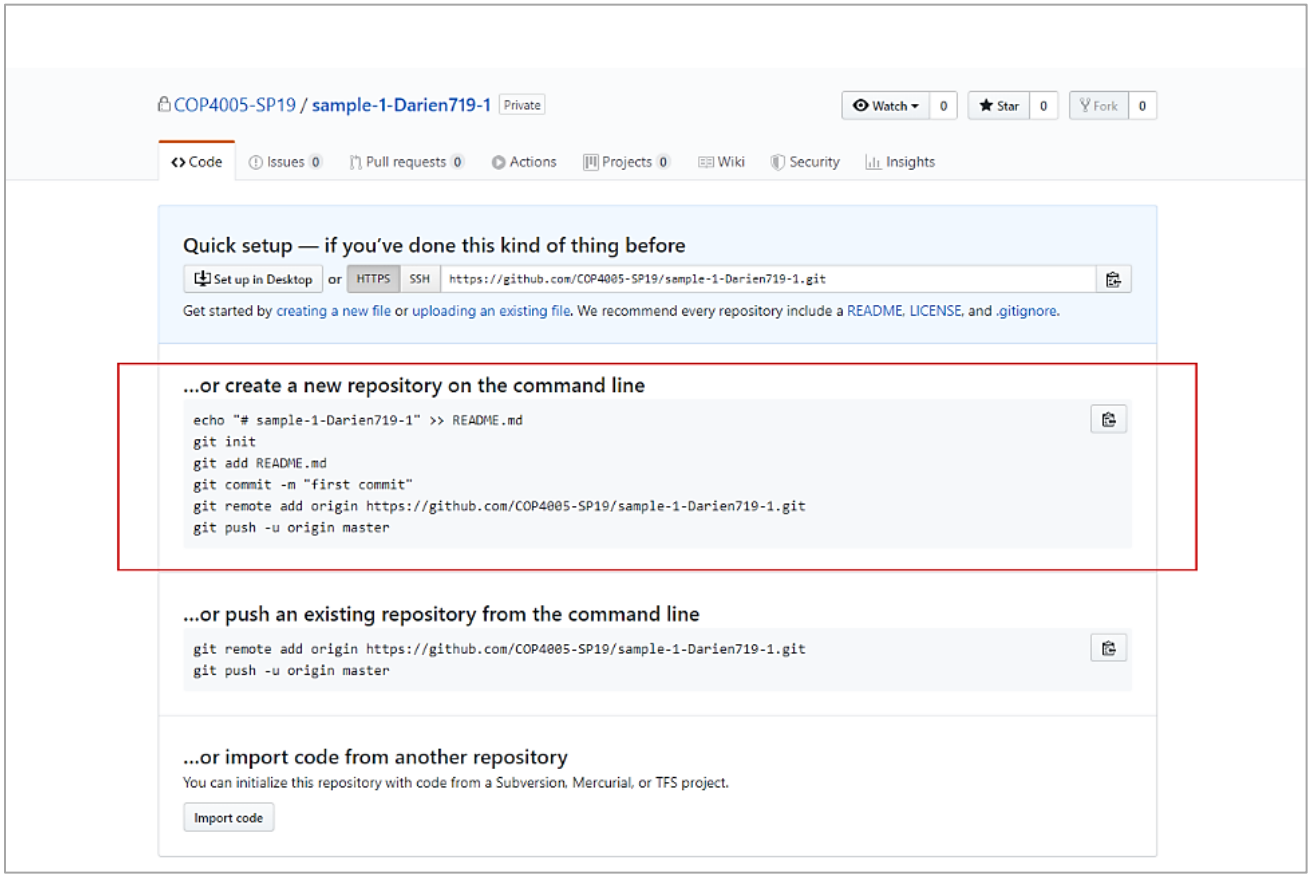
4) You will receive invitations to create your repository. Click the accept button on the link.

(Figure 4)



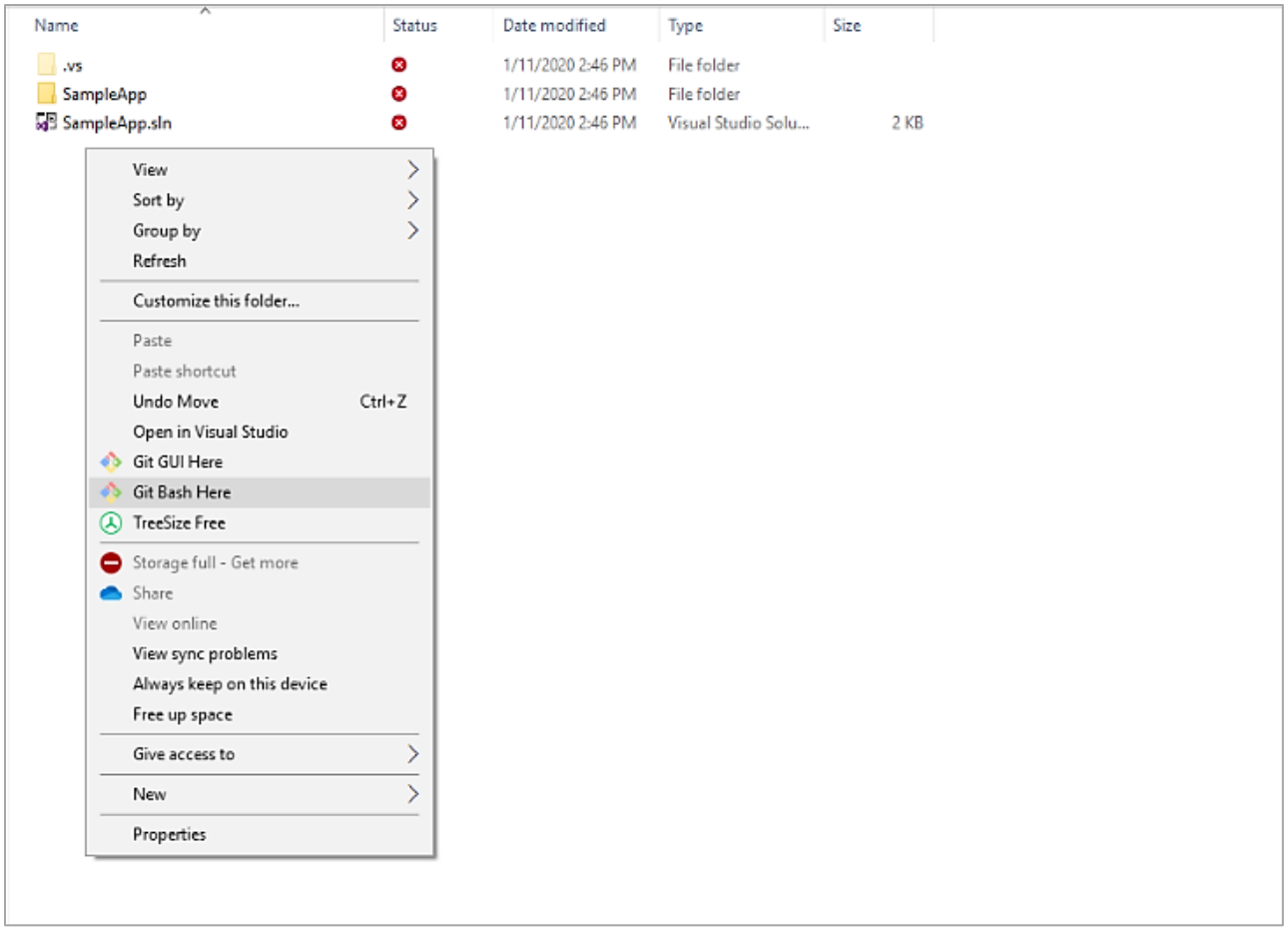
5) You will receive a link to access your repository, click it. The first time you open your repository you will be presented with a list of commands that you will run on Git Bash to create and link the directory on your PC to the GitHub repository

(Figure 5)



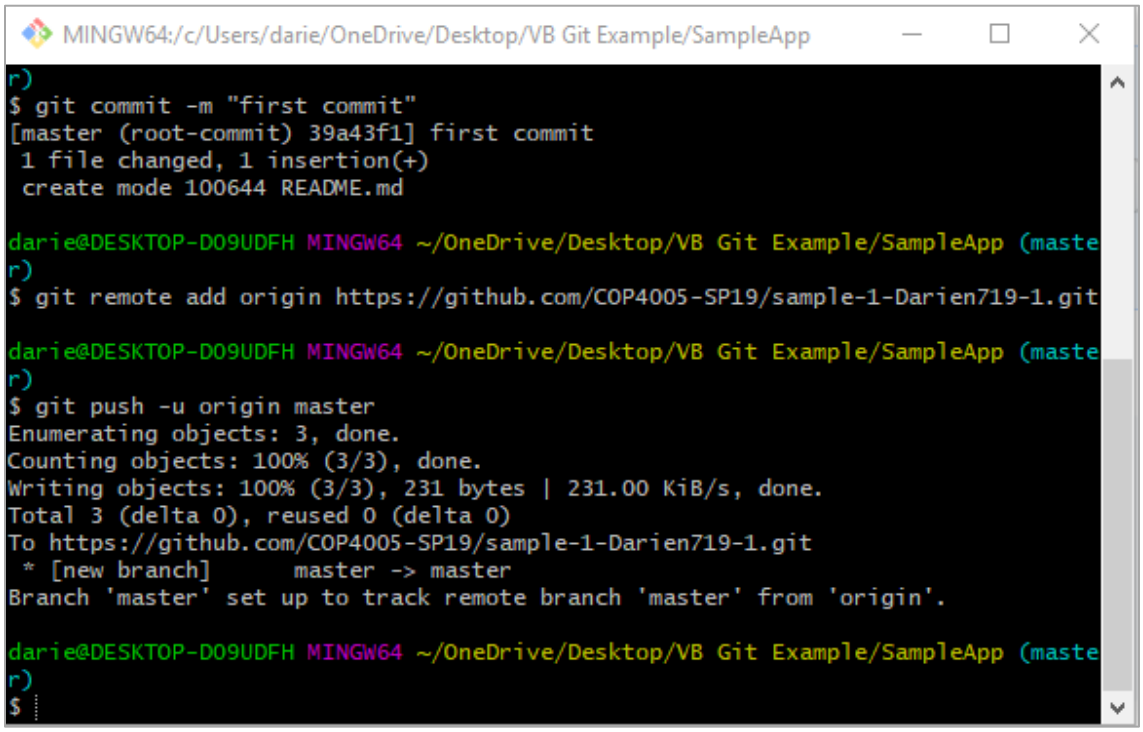
6) Before running these commands, we need to open the directory where we want to create this repository using Git Bash. This will be the folder where your project is located. Navigating to the folder using the Windows File Explorer and right clicking will prompt you with the option to open Git Bash here. Click it or alternatively navigate to the directory using the Git Bash command line

(Figure 6)

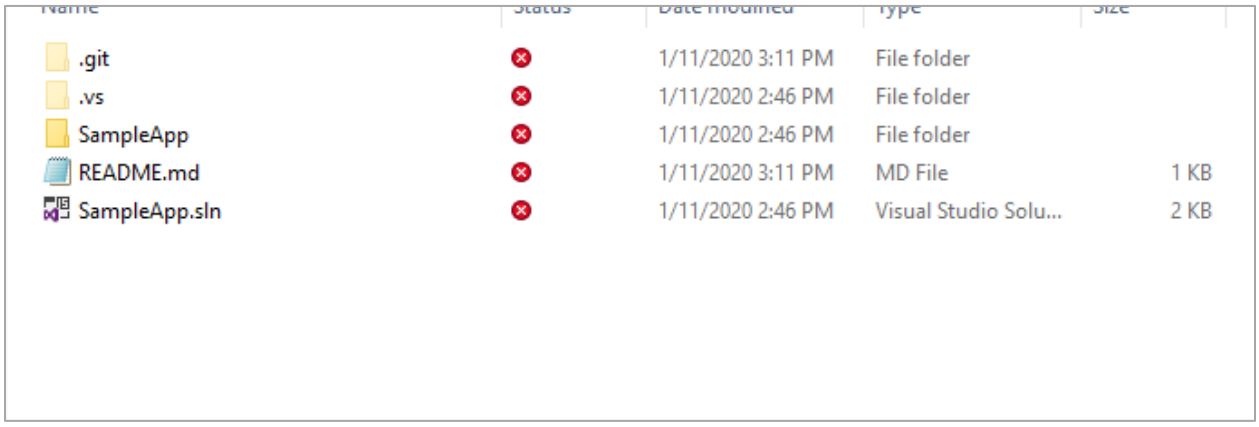


7) Copy and run the commands highlighted in Red in Figure 5 (Your version of the commands) – If it asks for your password with a prompt, enter your GitHub password.

(Figure 7 – Running the Commands)



(Figure 8 – File after the creation of the repository)



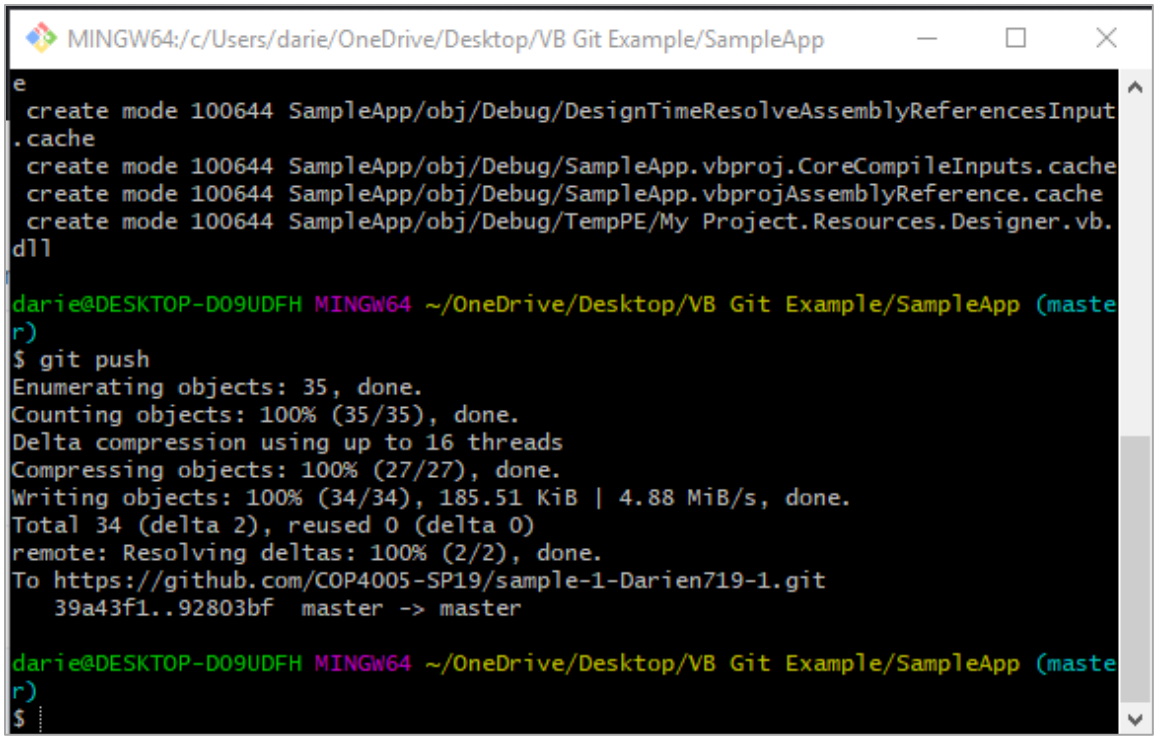
8) Once the repository is created, we can make commits to it. This will keep a remote copy of our program. From this point on, we will primarily use 3 commands, making sure we are on the directory that has the repository set up.

Add all the files to the staging area –
" Git add . "

Commit the file to changes
"Git Commit –m "Commit Comment" "

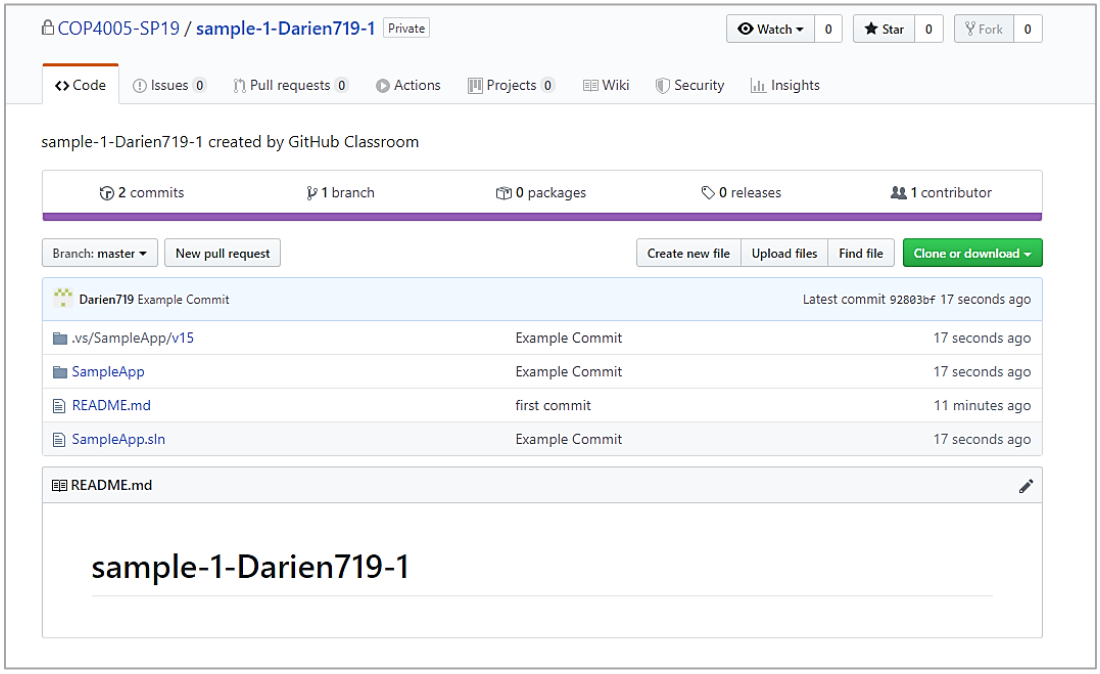
Push the changes to Git Hub
" Git push "

(Figure 9 – Git Bash Running the Commands)

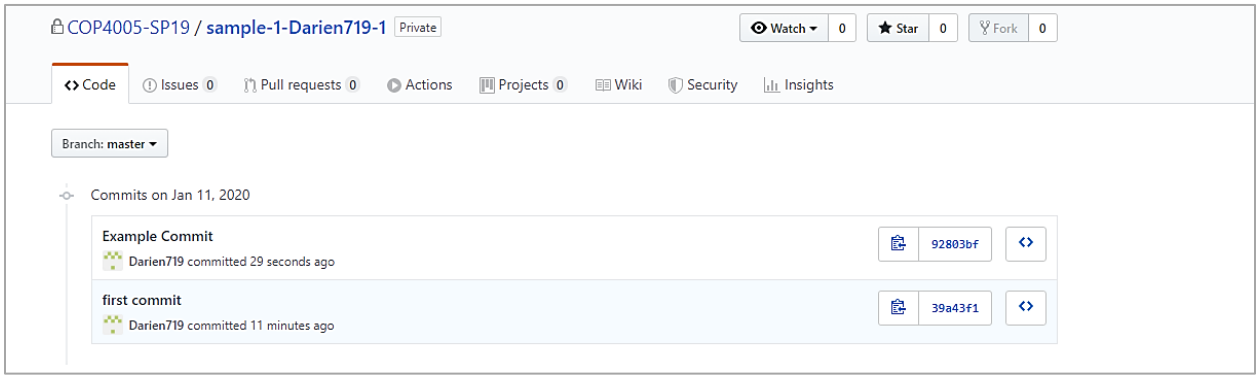


Run these 3 commands on Git Bash every time you want to make a change to the repository, and you will see it reflected in your Git Hub repository.

(Figure 10 – Files saved on GitHub Repository)

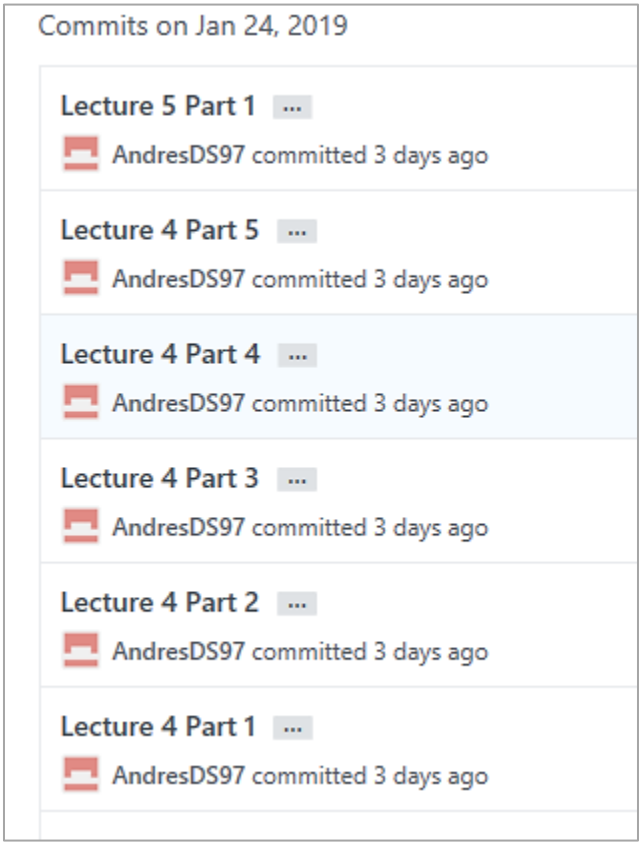


(Figure 11 – Commit History)



Naming the Commits

Name each commit with the name of the video to which your project corresponds. Here is a sample:



Conclusion

From this point on, for every assignment that will be submitted, we simply need to accept the invitation from Step 4. Copy and paste the commands on the correct directory and run the 3 commands form Step 8 to make changes. Good luck!