Name _____

GitHub Workshop Lab Guide - Windows

Your Tasks (Mark these off as you go)
☐ Define key vocabulary ☐ Create a GitHub account ☐ Install Git on your computer ☐ Configure your username and email ☐ Install Visual studio code ☐ Clone a repository ☐ Complete your assignment with Visual Studio Code ☐ Push changes to a repository ☐ Receive credit for this lab guide

☐ Define key vocabulary

- Open up your browser and search for definitions to the following terms as they relate to "Git". For example you could type "Git vocabulary".
- Work with your partner to write definitions for the following terms.

Git	a version control system used for tracking changes in computer files
GitHub	a web-based version-control and collaboration platform for software developers
repository	a storage location for software packages
local	to run it on the machine you are sitting at
remote	a software- or operating system feature that allows a personal computer's desktop environment to be run remotely off of one system
stage	a nearly exact replica of a production environment for software testing
commit	the making of a set of tentative changes permanent, marking the end of a transaction and providing Durability to ACID transactions
push	a function that adds one or more elements to the end of an array

clone	copy the values of an object or source code of an application program to another without the need for writing the explicit code

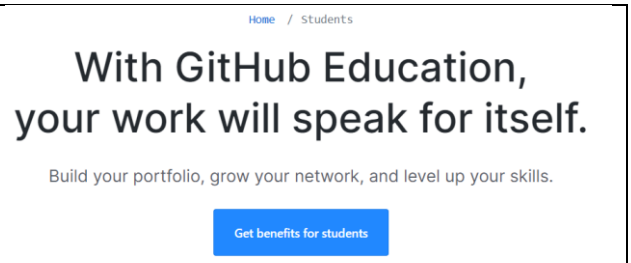
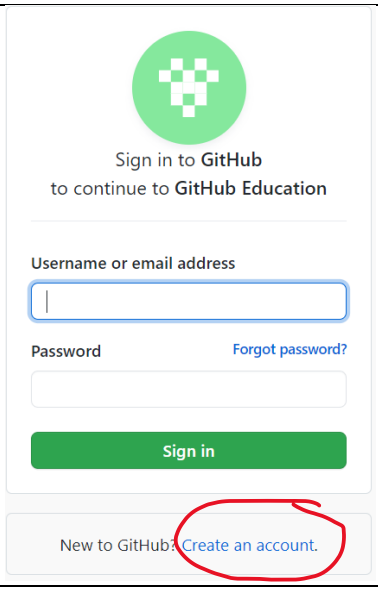
fork	to take the source code from an open source software program and develop an entirely new program

pull	a style of network communication where the initial request for data originates from the client, and then is responded to by the server

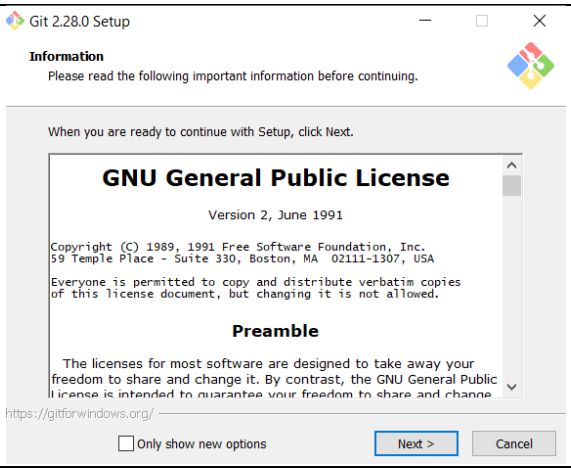
origin/master	used to deal with the remote repository

Gitpod	an open source developer platform automating the provisioning of ready-to-code developer environments

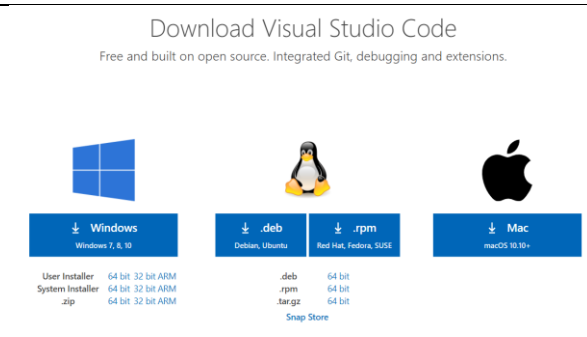
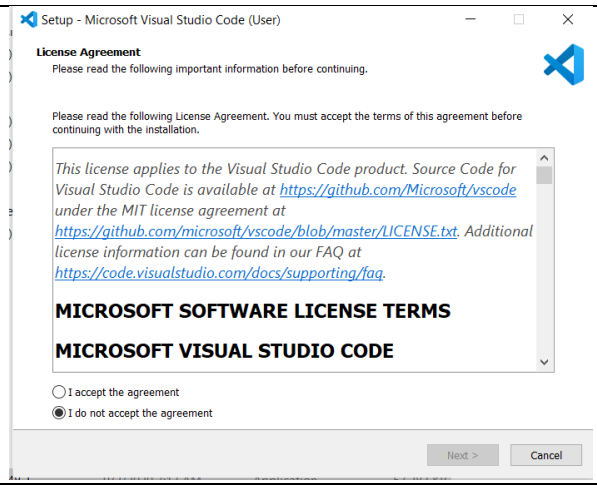
☐ Create a GitHub account

Navigate to the following address, https://education.github.com/students Locate the *Get Benefits for Students* button and click on it.	
Locate the *Create an account* link and click on it. Create your account when prompted	

☐ Install Git on your computer

If you are using a Pluska issued computer with a Linux OS, you may skip this section	
Navigate to https://git-scm.com/downloads and download Git	
Locate the file and install per your operation system	

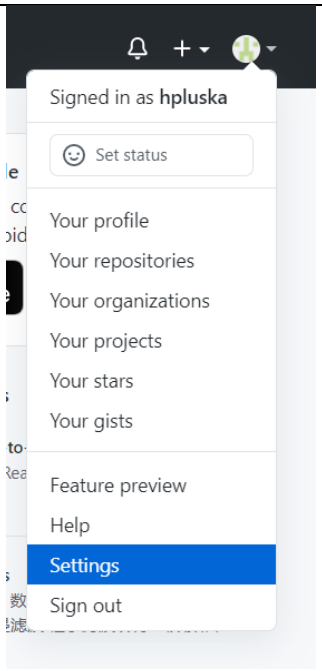
☐ Install Visual Studio Code

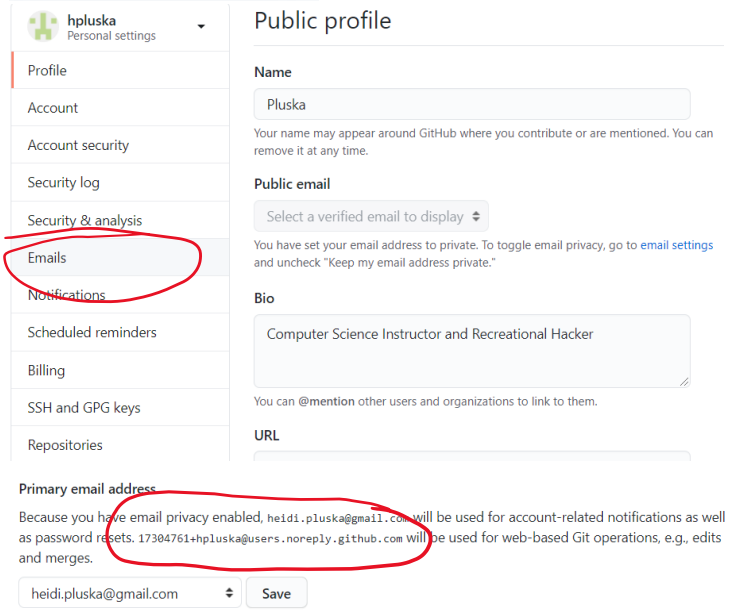
If you are using a Pluska issued computer with a Linux OS, you may skip this section	
Navigate to https://code.visualstudio.com/download and download Visual Studio Code	
Locate the file and install per your operation system	

□ Configure your username and email

Log in to GitHub and locate your no-reply email

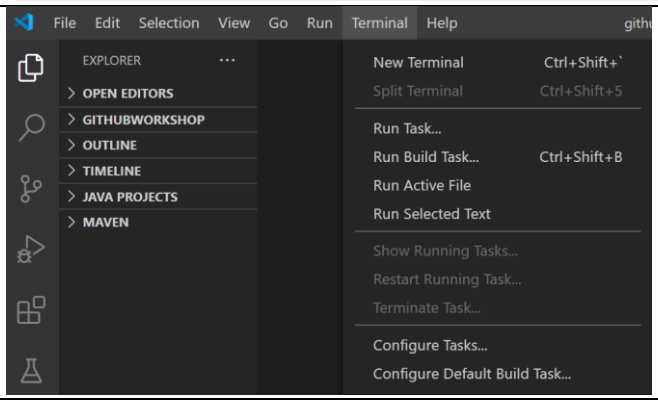
- Click on *Settings* from your start menu
- In the left menu, click on *Emails*
- In the Primary Email Address section copy the no-reply email provided in the text

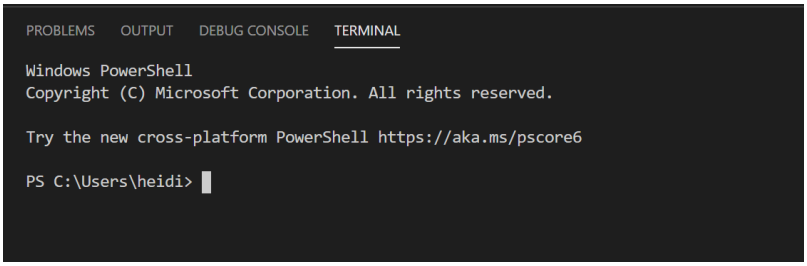




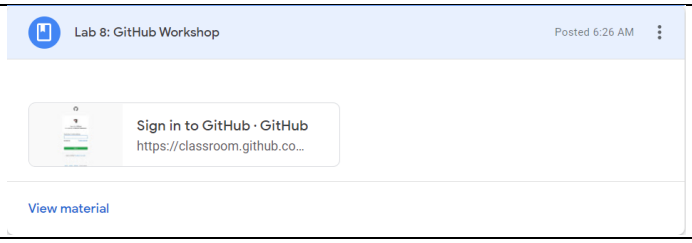
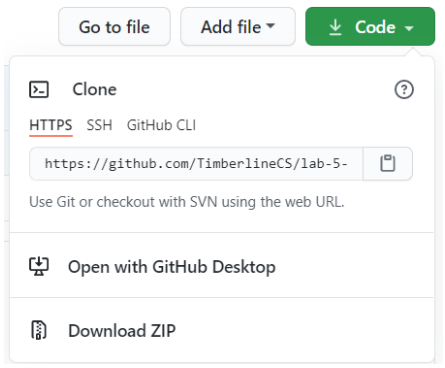
Open a Terminal

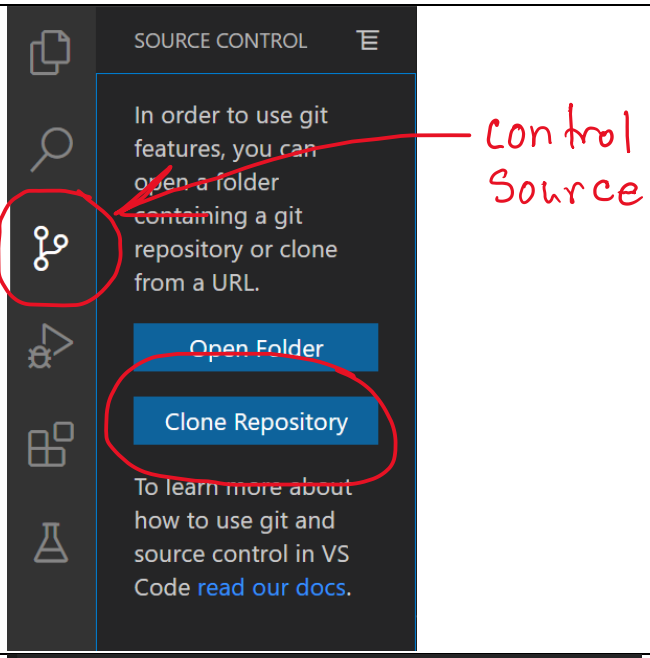
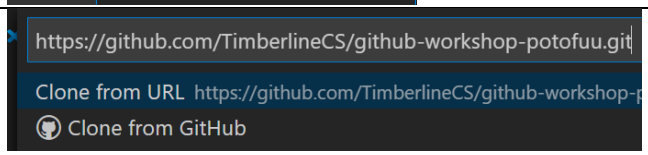
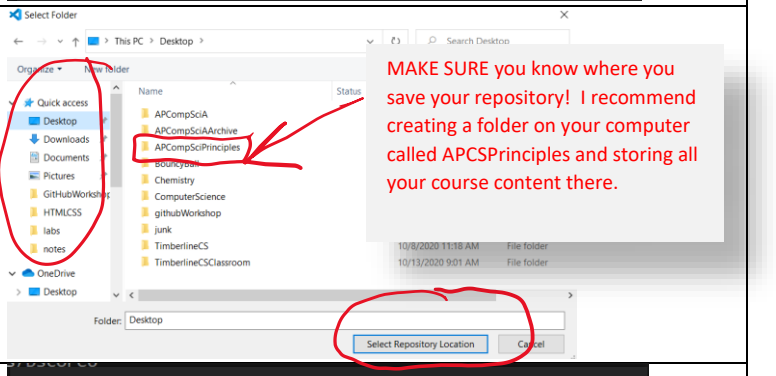
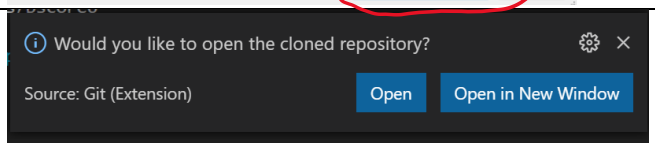
- Open Visual Studio Code
- From the menu at the top, select *Terminal*, *New Terminal*



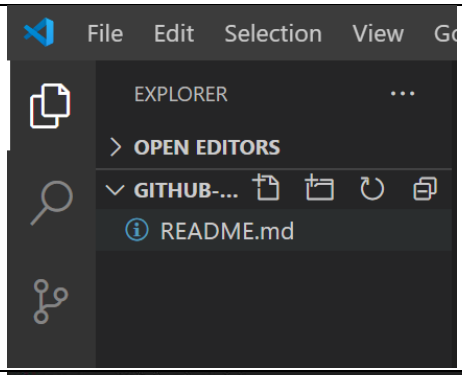
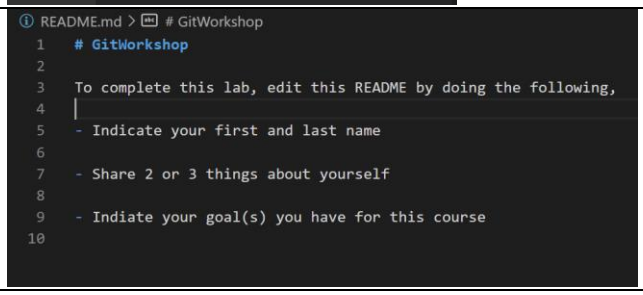
Set the Git commit username and email on your local computer to the ones you used on your GitHub account.
 	
- Locate the terminal window at the bottom of the screen.
- At the terminal prompt, type the following command, paste the email you just copied in between the quotes, then hit *Enter.*
 	
`git config --global user.email "paste the email you just copied here"`
 	
- To set your username, copy the following command, type your GitHub username in the quotes, then hit *Enter*.
 	
`git config --global user.name "paste your username here"`
	

☐ Clone a repository

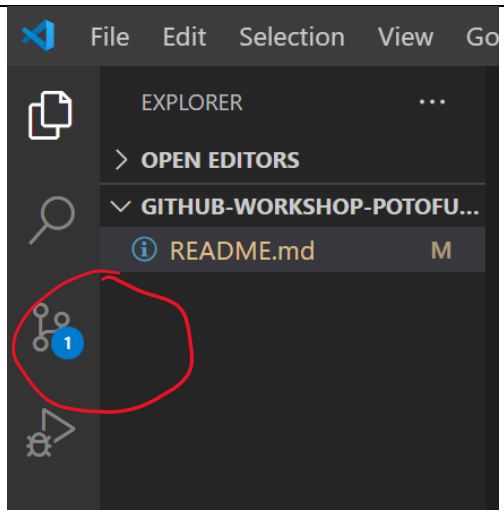
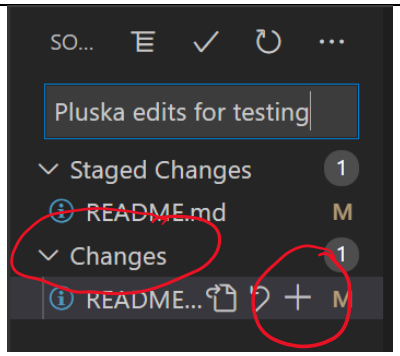
Navigate the classroom and locate the assignment. Accept the assignment you have been assigned using the link provided by Pluska.	
In the GitHub assignment repository you just accepted, locate the Code button and copy the https link	

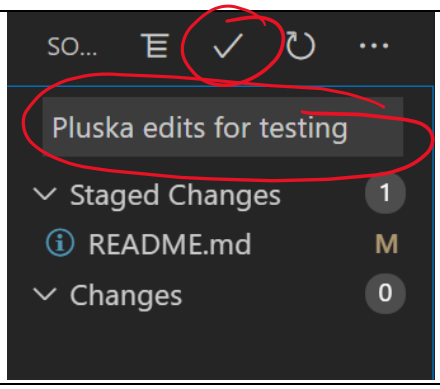
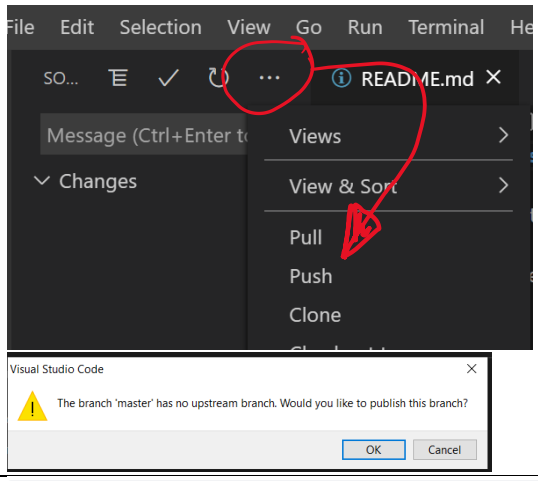
Return to Visual Studio Code - Click on the *Control Source* icon in the left menu - Click on the *Clone Repository* button	
Locate the text box at the top of the window and paste the URL to the repository you just copied, then click *Enter*	
Navigate to where you would like to store the repository. The click *Select Repository Location*	
In the bottom right corner of the screen locate the *Would you like to open the cloned repository?* Window. Click the *Open* button	

☐ Complete your assignment with Visual Studio Code

- Locate the *README.md* file in the left menu and click on it.	
The file you clicked on is now open in the editor window. Answer the prompts. When you are done, type *ctrl-s* to save your file. You can also save your file by selecting *Save* from the *File* menu.	

☐ Push changes to a repository

After you save the file you have changed, a blue circle with a number will appear on the Source Control icon. This means you have 1 pending change to push to GitHub. Click on the source control icon to open the Git menu.	
Pushing your work back to GitHub is a three part process – Stage, Commit, Push. You will notice Visual Studio Code tracks the changes you have made to files. Locate the file you just changed under the *Changes* tab. Then click the plus sign next to it to stage your changes.	

To commit your changes you must first type a message in the dialogue box. This message should be descriptive and brief. Click the check mark when done.	
To push your changes back to GitHub, select Push from the Source Control menu. Access this by clicking on the 3 dots. If you see the warning message, just click *OK.* You should only see this the first time you push.	
Now return to your GitHub assignment repository and refresh the page. Check out your edited file! BAM! Thanks to *potufuu* for allowing me to use their assignment as an example!	README.md **GitWorkshop - edits by Pluska 2** To complete this lab, edit this README by doing the following, • Indicate your first and last name • Share 2 or 3 things about yourself • Indiate your goal(s) you have for this course

☐ Receive Credit for this lab guide

Submit this portion of the lab to Pluska to receive credit for the lab guide. Once received, your completed README will also be graded and will count towards your final lab grade.