Week 2 Lab Assignment Goals

- Clone a Git repository to your local machine
- Learn about opening, reading, and searching files
- Add and commit your changes to the Git repository

Step 1: Install Git

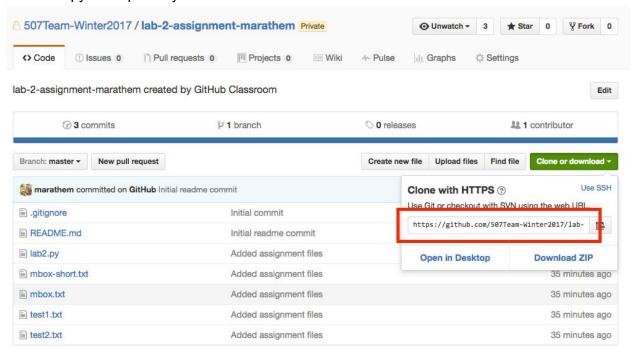
- Go to https://help.github.com/articles/set-up-git/
- Follow the instructions to download and setup Git on your machine

Step 2 : Create a GitHub repository

- Go to
 - https://classroom.github.com/assignment-invitations/6e12ebd000b1586e2c2f14234323d 383
- Accept the assignment invite
 - you will need to create a GitHub account if you don't already have one
- This will create a GitHub repository for you containing some starter code

Step 3: Get starter code onto your machine

- Click the Clone or Download button on your GitHub repository
- Copy the repository URL



- Open a Terminal window or command prompt and cd to the desired folder
- Type 'git clone repository-URL'
- Type 'ls'. You should now see your cloned repository. Now 'cd' into this repository.
- Type 'ls' or 'dir' to list the files included in the starter code

Step 4 : File I/O

- Modify the parseData function in lab2.py
 - parseData takes a filename and uses it to calculate the average value of all X-DSPAM-Confidence values in that file
 - o parseData should return a string of the form "Average spam confidence is XXX."
 - If the file does not contain any X-DSPAM-Confidence values, parseData should return "No data to report."
- Verify whether your code works by typing 'python lab2.py' in Terminal or command prompt.
- Your code works if your output looks like the following:

Ran 4	tests	in	0.126s				
0K				_			

Step 5 : Commit your changes

- Type 'git status'
- This will show you all the files you have modified
- Type 'git add filename1' for every file that you would like to include in your commit
- Type 'git commit -m "commit-message" to commit your added files
- At this point, the files are committed locally, but not yet to your GitHub repository

Step 6: Push your changes

- Type 'git push' to push your local changes to the GitHub repository
- Do not forget to run this command!

Step 7 : Additional File I/O

- Write a script busydays.py that
 - o Prompts the user for a filename
 - Searches the file to determine on which days most emails are sent. The field that contains the timestamp, including day of the week, is called:
 - "X-DSPAM-Processed"
 - o Prints out results in sorted order

• Your code works if your output looks like the following:

```
[m-c02rq3xmg8wp:DS2 collemc$ python3 busydays.py
Enter the file name: mbox.txt
392 Thu
372 Tue
315 Fri
299 Mon
292 Wed
66 Sun
61 Sat
[m-c02rq3xmg8wp:DS2 collemc$ python3 busydays.py
Enter the file name: mbox-short.txt
20 Fri
6 Thu
1 Sat
[m-c02rq3xmg8wp:DS2 collemc$ python3 busydays.py
Enter the file name: box.txt
File cannot be opened: box.txt
m-c02rq3xmg8wp:DS2 collemc$
```

Commit and push busydays.py to your GitHub repository