

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/6e12ebd000b1586e2c2f14234323d383>
- 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

507Team-Winter2017 / lab-2-assignment-marathem Private

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lab-2-assignment-marathem created by GitHub Classroom Edit

3 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

marathem committed on GitHub Initial readme commit

Clone with HTTPS Use SSH

Use Git or checkout with SVN using the web URL

https://github.com/507Team-Winter2017/lab-2-assignment-marathem

Open in Desktop Download ZIP

.gitignore	Initial commit
README.md	Initial readme commit
lab2.py	Added assignment files
mbox-short.txt	Added assignment files
mbox.txt	Added assignment files
test1.txt	Added assignment files
test2.txt	Added assignment files

- 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
 - `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
```

```
OK
```

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
 - 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"
 - 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