**Exercise on GitHub and Git**

Deadline: 9/30 6 pm

100 points.

In this course, we will be using GitHub for assignment submissions, code versioning, bug tracking, project management, and project documentation.

The goal of this exercise is to get you started with Git and GitHub. Even if you are using Git and GitHub regularly you need to do this exercise and submit it.

Please follow the instructions completely. Work that does not follow the instructions (including naming conventions) will NOT be accepted and will result in a grade of 0.

**Part 1:**

Create a GitHub account (if you do not have one)

<https://github.com>

Submit your GitHub username in the form here:

<https://docs.google.com/spreadsheets/d/16-2-i0hNf0AuyOmELdqTA2gLKQ2t94EyZcyNpLJkScw/edit#gid=1619109757>

as described in the file. The file should be organized alphabetically by last names.

In the future I will check your work directly from your GitHub account.

**Part 2:**

Install Git bash <http://git-scm.com/downloads> and browse the documentation.

**Part 3:**

Answer the following questions.

What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Answer between 5 and 10 lines)

Answer these questions in a Word file called *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx*. Please respect the naming conventions!

**Part 4:**

Go through the Git tutorial here: <https://try.github.io>. While doing the tutorial, save your work the *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx* file.

**Part 5:**

Define the following terms in the context of Git (2 lines maximum):

* Repository
* Commit
* Push
* Branch
* Fork
* Merge
* Clone
* Pull
* Pull request

Answer these questions in the *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx* file.

**Part 6:**

Push the Word file in **YOUR** GitHub account in a repository called ***CS6432015***. Please respect the naming conventions! You will use this repository this semester. Your repository will be accessible at: https://github.com/yourpseudo/CS6432015.

**Part 7:**

Retrieve the README.md file at:

<https://github.com/paceuniversity/courses>

Add your name (lastname, firstname) in the file, **add a comment (date and time) (REQUIRED)**, and update the README.md file at: <https://github.com/paceuniversity/courses>. Your name should appear at the provided <https://github.com/paceuniversity/courses>. Please check the work of previous students.

List the commands and strategy you use to do this part of the exercise in the *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx* file and push it to: https://github.com/yourpseudo/CS6432015.

Please note that I may have to accept the change before it appears for you. Hint: I will have to merge your pull request and you will get an email when I will do it.

**Part 8:**

Add an issue with title “GitHub training” in your repository called CS6432015. Issues will be used for tasks and bug reports.

**Part 9:**

Edit the main page of the wiki in your repository called CS6432015. Add the title “CS 643 2015” to the page. The wiki will be used for documenting your work in the course.

**Part 10:** **(only for people who had and used GitHub before this class)**

What is your experience with GitHub? Describe it in 5-10 lines.

Answer these questions in the *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx* file and push it to: https://github.com/yourpseudo/CS6432015 again.

**References and more resources**

See Blackboard / Assignments / Week 3 -> Week 4