**Exercise on GitHub and Git**

**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)**

GitHub is a development platform used for controlling Git. It is essentially a web-based hosting service used for version control and source code management. It was created in 2007, and launched in 2008, by Tom Preston-Werner, Chris Wanstrath, and PJ Hyett. Some similar platforms to GitHub are: GitLab, BitBucket, SourceForge, and Launchpad. The reason to use this type of platform is ease of code management. Platforms such as GitHub and GitLab provide developers a place to store and share their code, while also keeping track of changes. It’s a simple way to allow others collaborate with you, while still controlling what changes are ultimately made thanks to commit ID’s to look at what changes are made everytime something is updated, and push and pull requests if one user is in charge of a repository. These platforms provide user-friendly interfaces and simplify the process of using Git.

**Go through the Git tutorial here:** [**https://try.github.io**](https://try.github.io)

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

* Repository – similar to a project folder, the repository contains all the files, documentation, and revision history for a project.
* Commit – a revision to a file, or a set of files. A commit is similar to saving a new version, except Git creates a new ID for each commit in order to track the changes.
* Push – sending your committed changes to a remote repository, such as one hosted on GitHub.
* Branch – a parallel version of a repository. It is contained within the repository, but will not affect the master branch.
* Fork – another copy of another user’s repository that is kept on your account. With a fork, you can freely make changes without affect the original project.
* Merge – applying changes from one branch (either in the same repository or fork) to another. This often occurs through a pull request.
* Clone – a copy of a repository that lives on your computer, or the act of making that copy.
* Pull – when you fetch *in* changes and merge them. For example, pulling changes from the remote repository into your local files.
* Pull request – proposed changes to a repository submitted by a user and accepted or rejected by a repository’s collaborators.

**Retrieve the README.md file at:**

[**https://github.com/paceuniversity/courses**](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**](https://github.com/paceuniversity/courses)**. Your name should appear at the provided** [**https://github.com/paceuniversity/courses**](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/CSXXX20XX**](https://github.com/yourpseudo/CSXXX2016)**.**

Commands used: fork and edit file, then submit pull request.