**Exercise on Git and GitHub**

**Part 3**

What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Paragraph between 3 and 5 lines)

GitHub is a platform that helps people solve problems by building software together. GitHub is a Git repository hosting service (maintains version control source code), which provides a web-based graphical interface. This helps every team member on the project to join from anywhere and to easily collaborate. GitHub.inc has existed since 2007, however, the service has started in February 2008 by Chris Wanstrath, P.J Hyett, Tom Preston-Werner. Gitlab, SourceForge, BitKeeper, Mercurial, Subversion, Google cloud, etc are some similar platforms that exists. It is a collaborative space for developers. Many developers can work on a single project and contribute their knowledge simultaneously. I like to use this platform as it provides free storage for my source codes and I can collaborate with my co-developers in a single project without a hassle.

**Part 4**

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

* **Repository**: A folder/directory created in GitHub to store source code. Can have multiple repositories and each repository will store a particular project’s source code.
* **Commit**: This command record changes made in source code or in repository. This creates a unique hash code each time. One of the most used commands in git.
* **Push**: After all the code has been committed push is used to upload local repository to the remote repository.
* **Branch**: Helpful when working in teams. Creates a copy of the main content and any modifications done in branch will not get reflected in main. Can be merged at a later stage.
* **Fork**: This is a copy of an existing repository. Can change anything and experiment with changes without changing the original project.
* **Merge**: When modifications done in a branch is finalized and migrated to the main.
* **Clone**: Creating a copy of a repository. Clone downloads an existing repo to your local device and you can start working on the project
* **Pull**: This will download all the changes made into the remote repo and reflect them in the local repo.
* **Pull request**: Inform others that you have made changes to the code and pushed it to a branch in a repo.

**Part 6**

List the commands and strategy you used to do this part of the exercise in the *LastnameFirstnameGitTutorial-mm-dd-yyyy.docx* file and push it to YOUR repository.

* Go to repo at <https://github.com/paceuniversity/courses>
* Fork the repository
* Create a local clone. (git clone <repo url>)
* Add the name, date and time to the README.md file and save
* Add and commit changes (git add . / git commit -m “Commit message”)
* Push the edited file to the fork. (git push origin <branch\_name>)
* Create a pull request to <https://github.com/paceuniversity/courses>.