**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 code hosting platform for collaboration and version control. It also helps people to run software, solve problems together of project and to work precisely. A GitHub repository can be used to store a development project and it also contain folders and different types of file like Html, JavaScript, Css, Image, Documents. It is very flexible to use and easily manageable by every group members and anywhere. GitHub.inc has existed since 2007 but the service has started in February 2008 by Chris Wanstrath , P.J Hyett , Tom Preston-Werner.

Gitlab , SourceForge, BitKeeper, Mercurial, Subversion, Goggle cloud,etc are some similar platforms that exists an is a collaborative space for developers . Many developers can work on a single project and contribute their work . I prefer this platform as it easily manageable by the whole group , we can see each other and suggest them about the project and also provides free storage .

**PART 4**

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

1. **Repository :**

A folder/directory created in GitHub to store source code . It is also used to store a development project. We can make multiple repository and each will store a particular project data.

1. **Commit :**

This creates a unique hash code each time.One of the most used commands in git. This command records change made in source code or in repository.

1. **Push :**

After all the codes has been committed push is used to upload local repository to the remote repository.

1. **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.

1. **Fork :**

This is a copy of an existing repository. Can change anything and experiment with changes without changing the original project.

1. **Merge :**

When modifications done in a branch is finalized and migrated to the main.

1. **Pull :**

This will download all the changes made into the remote repo and reflect them in the local repo.

1. **Pull request :**

Inform others that you have made changes to the code and pushed it to a branch in a repo.

1. **Clone :**

Creating a copy of a repository . Clone downloads an existing repo to your local device and you can start working on the project.

**PART 6**

**List the commands and strategy you send 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>.