**ASSIGNMENT**

**CSE 210 – PROGRAMMING WITH CLASSES**

**What is a version control system is and why is it important?**

Version Control System is a useful tool for developers especially collaborators or team projects. It allows project collaborators have access to a local copy of the project - contained in a remote repository – that they are working on. It gives room for independent changes to the project by the collaborators who have access to the repository.

As these changes are made, a version control system keeps track of those changes that are made, who made them, when then changes were made and even why the changes were made. This history (of the project) is available to authorized members of the team/collaboration.

With version control systems like Git, collaborators can work in different time zones while maintaining code integrity, communication barriers among developers is also broken.

Some basic commands used in the popular distributed version control system called Git includes:

* Git Init: Creates a new repository that stores the collection of files and folders associated with the project.
* Git clone: This command creates a local copy of the remote repository for individual team members.
* Git add: This stage the change/changes made to the project.
* Git status: Allows the display of the status of changes made to the project.
* Git pull: Retrieves changes made to the remote repository into the local copy of a team member who runs the command.
* Git push: This does the opposite of the pull. It updates the remote repository with changes made to a local copy of the project.