Assignment – 2

Git commands

git add - Moves changes from the working directory to the staging area.

git branch - It lets you create branches within your repository.

git checkout – It lets you checkout a particular branch to work on.

git clean - Removes untracked files from the working directory. This is the logical counterpart to git reset, which (typically) only operates on tracked files.

git clone - Creates a copy of an existing Git repository.

git commit - After you add your changes to staging area you will use this command to commit the changes to the project history.

git config - to set configuration options for your Git installation.

git fetch - Fetching downloads a branch from another repository. It doesn't try to integrate anything into your local repository. This gives you a chance to inspect changes before merging them with your project.

git init - Initializes a new Git repository.

git log - Lets you explore the previous revisions of a project.

git merge - A way to integrate changes from different branches into master branch.

git pull -. It downloads a branch from a remote repository, then immediately merges it into the current branch.

git push - It lets you move a local branch to another repository.

git status - Displays the state of the working directory and the staged snapshot.

Compiler – In general we write a program in human understandable language but for a processor to execute code it should be in a machine understandable language that is binary language. So, compiler does the conversion from programming language to binary language.

A compiler does lexical, syntactic and semantic analysis on the code to convert into binary code.

In this process, compiler also decides where the variables are stored.

Complex operations like loops (while, for) and conditions(if) are compiled into pre-existing instructions by the compiler.

A complied code is exclusive to the platform It is compiled on. Some programming languages like java use an intermediate byte code so that it can be executed in any platform that runs java.