Assignment 1: Articulate.

Version control System.

It is a system of tracking and managing modifications or changes to software code that is used in programming. If a any change is made to the code, earlier version of the code can be recovered at any time should the need arise. This system helps programmers manage the changes to source code over period of time.

Importance of Version Control

1. Programmers can keep track of the modifications that happened to the code. This helps in tracking and checking the progress of any project.
2. It removes traditional barriers of time differences around the world. Developers work in every time zone and make positive contribution to any project.
3. They promote teamwork and help developers share ideas and talents in a unique way, where each individual’s inputs to the projects can be noticed.
4. Files can be shared with teammates. Copies of files can be recovered from the repository should and computer crash.
5. Software can be delivery more quickly.
6. Promotes accountability among team members.
7. Quality of the software is enhanced as different ideas are merged.

Notes

* What does the "git init" command do?

**git int** --------------initializes a new Git repository and begins tracking an existing directory.

* What does the "git clone" command do?

**git clone -**----------creates a local copy of a project that already exists remotely. The clone includes all the project's files, history, and branches.

* What does the "git add" command do?

**git add** ------------stages a change.

* What does the "git commit" command do?

**git commit** ----------- saves the snapshot to the project history and completes the change-tracking process.

* What does the "git status" command do?

**git status** ----------------shows the status of changes as untracked, modified, or staged.

----------------------------------------------- File Organization Notes----------------------------------------------

**pwd** (print current directory) ---------- current directory

**cd** ----------------change to e.g. **cd peter** takes you to the **peter** folder in or under the current location

single period. ------------------ current directory

double period **..** ---------------------------- refers to parent directory.

**cd..** ----------------- takes you from the location you are currently in, to the **parent directory**