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PHY494: Computational Methods in Physics

Homework 02

2.1

a.) A version control system has several different important features. Firstly, it allows for the recall of previous versions of different pieces of code, text or images that one has been working on. This is particularly important if one is working as a group as it records who made changes and when those changes were made. This makes debugging easier as you can simply move to a previous version where there were no problems and see what changes were made.

Version control systems also make it easier to control who has access to work on a given project. Access to a piece of code can be granted to some individuals while restricting others. Additionally, version control systems provide a handy backup if something happens to ones computer a local server.

b.) git init and git clone are similar commands but there are some subtle differences. They both allow one to “pull” a repository made on the GitHub site to be placed in your local repository. Git clone however takes one step while git init takes several steps. Additionally

- c.) Git add is a command that tells git to start tracking a file but does not commit those files. Git commit however does commit all files that have been previously added
- d.) The command “git commit” only commits files to your local repository whereas “git push” sends things to your remote repository.

2.2

GitHub Username: howardcameron2