Explain the meaning of Version Control – Version control is used to track the history of changes on something. Wither it’s a Word Document, Program written by you (or a team). Version Control can tell someone who made what changes to what part of the document/program etc.

Highlight a benefit of Version Control – With Version Control any time a change is made, a comment is also put with the version as to what was changed, added etc. This can be beneficial when trying to figure out when a program isn’t working right, but a version 2 versions ago worked just fine. You can tell what was changed / added in the last 2 versions, so you know where to start troubleshooting.

Provide an application of Version Control. This means, provide an example of how Version Control could be used. In this class (along with others) we’ve used Git combined with GitHub to provide Version Control. You use GIT to push your changes, and pull your changes etc. This can be used individually, or by a team working on a project together.

Show a command used in Version Control (for example a Git command)

git add csharp-prep/Prep1/Program.cs

Thoroughly explain these concepts

Imagine you’re working for a global company working on one of many software development teams. You’re working on an issue because you’ve just released an updated version of your software; however, users are reporting that they are experiencing issues.

Because you’ve been using Version Control you have a history of what changes were made since the beginning of time, you can go back to see what changes were made, so you know where to start looking.

You see what changes were made, and you use Git to pull a previous version down from GitHub. You can then put the code side by side and start comparing to see where any issues may lie.