Assignment Response.

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

**Your response must:**

* **Explain the meaning of Version Control**
* **Highlight a benefit of Version Control**
* **Example of version control: Describe the way version control might be used on a software development team.**
* **Show a command used in Version Control (for example a Git command)**
* **Thoroughly explain these concepts (this likely cannot be done in less than 100 words)**

My answer is:

Version control is a system that allows programmers to keep track of changes made to the programming code, making sure that everyone on the team is working with the same updated version. It is important because it helps teams collaborate without overwriting each other’s work and provides a history of what changed, who changed it, and why. For example, when a software team is building an app, each person can work on a different feature in their own branch, save their progress with commits, and later merge their feature into the main project. This keeps the code organized, lets the team go back to older versions if something breaks, and ensures smooth teamwork. A common Git command used in version control is git commit -m, which records changes to the project with a message describing what was done.