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*W01 Assignment: Explain Version Control*

*CSE 210 Programming with Classes*

1. **Explain the meaning of Version Control**

The version control is a tool that allows the collaboration of different people in a work team, besides which it has advantages such as: it allows "back in time" since when working in teams some changes made by users can lead to errors, its greatest benefit is that it allows for collaborative work between the teams, each person working separately (branches) and then uniting all the branches into a single work, Avoid overwriting or deleting a teammate’s work by mistake

1. **Highlight a benefit of Version Control**

Its main benefit is to enable efficient collaboration between the people on the work team. each person works on their own part of the work (branch) without impeding another person’s work.

1. **Example of version control: Describe the way version control might be used on a software development team.**

An example of this is that three people can work on different functionalities of the same projector, the person A, may be working on a function that allows creating and storing users of an application, while another is adding functionality that allows you to add information or upload documents

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

git status: Shows the current status of files (which have changed, which are ready to save, etc.).

1. **Thoroughly explain these concepts (this likely cannot be done in less than 100 words)**

Version control helps us organize our work to make it efficient and clear. This version control helps us work without the risk of damaging or otherwise affecting the work of other members of the team. For this purpose we use the tools of Git which help us with some of the following functionalities:

- evaluate the state of our work and that of the team’s collaborators

- find and correct code errors efficiently

- keeping and analyzing a history of the updates to the code

- avoid changes in someone else’s code