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Intro to Version Control and Git Results for Christine En-Tse Cheng

⚠ Correct answers are hidden.

Submitted Sep 11 at 4:37p.m.

Question 1	1 / 1 pts

Why is version control beneficial for software development? (Choose the most complete and accurate answer)

○ It speeds up the compilation process.

○ It improves code readability.

◉ It allows tracking changes and facilitates collaboration.

> Version control systems like Git help developers track changes to their code, collaborate with team members, revert to previous versions, and manage different versions of the same codebase.

○ It automatically fixes bugs.

Incorrect

Question 2	0 / 1 pts

What command is used to stage changes in Git?

◉ git commit

○ git push

○ git add

○ git checkout

Question 3	1 / 1 pts

What does the `git status` command do?

○ Shows the history of commits

○ Resets the repository to a previous state

○ Displays the differences between commits

◉ Shows the current state of the working directory and staging area

> The `git status` command displays the current state of the working directory and staging area, including any changes that have been made and staged.

Question 4	1 / 1 pts

What is the purpose of the `git clone` command?

○ To create a new repository

◉ To copy an existing repository to a local machine

> The `git clone` command is used to copy an existing repository to a local machine.

○ To create a new branch

○ To delete a branch

Question 5

1 / 1 pts

What is a pull request in Git?

○ A mechanism for branching in Git to work on isolated features or fixes

○ A feature in Git for reverting changes to a previous state of the repository

○ A process of cloning a project, making changes locally, and pushing them to a remote repository

◉ A way to propose changes to a repository and request review and merging on Git hosting platforms like GitHub

> A pull request allows developers to notify others about changes they've pushed to a branch in their repository and request that those changes be reviewed, discussed, and potentially merged into another branch.
>
> Pull requests are typically used in collaborative development workflows, enabling transparent review of proposed changes before they are merged into the main branch of the repository.
>
> Other options describe other Git concepts but do not accurately define a pull request.

Question 6

1 / 1 pts

What is the primary difference between staging and committing changes in Git?

○ Staging allows for reverting changes to a previous state, while committing is the process of creating a backup of the entire repository

○ Staging involves merging changes from one branch to another, while committing involves resolving conflicts between different versions of files

◉ Staging is the process of preparing changes to be included in the next commit, while committing records those changes permanently in the repository

> This option accurately describes the difference between staging and committing in Git. **Staging involves selecting changes to be included in the next commit, while committing permanently records those changes in the repository's history.** Other options describe other Git concepts but do not accurately differentiate between staging and committing.

○ Staging is the final step before pushing changes to a remote repository, while committing is the initial step of creating a new branch

Question 7

1 / 1 pts

When **first joining a new project** and **making your first coding contribution to the remote repository**. Which of the following is the order of commands that could be used to achieve this?

○ git add, git commit, git push, git clone

◉ git clone, git add, git commit, git push

> We first clone the remote repository, then stage our changes, then commit those changes locally, and then finally push our work to the remote repository.

○ git commit, git push, git clone, git add

○ git add, git commit, git push

○ git clone, git commit, git push

git add, git clone, git commit, git push