

Quiz

Score: 16/16

1. What is Git?

☐ A tool for creating websites☒ A version control system☐ An operating system☐ A graphic design software

Explanation

Git is a distributed version control system used to track changes in source code during software development. It allows multiple developers to collaborate on a project and keeps a record of every change.

2. What does the 'commit' command do in Git?

☐ Merge changes from another branch☐ Discard changes in the working directory☒ Save changes to the local repository☐ Push changes to a remote repository

Explanation

The 'commit' command is used to save the changes to the local repository. It is important to commit changes frequently to create a history of the project and to make it easier to collaborate with other team members.



3. What is the purpose of the 'merge' command in Git?

Create a new branch

Delete a branch

Integrate changes from one branch into another

Rename a branch

Explanation

The 'merge' command is used to integrate changes from one branch into another. It combines the changes and histories of different branches, allowing team members to work on separate features of a project and then merge their work together.



4. What does the 'push' command do in Git?

Save changes to the local repository

Send committed changes to a remote repository

Retrieve changes from a remote repository

Discard changes in the working directory

Explanation

The 'push' command is used to send committed changes to a remote repository, making them available for others to pull and use. It is an important step for collaborating with a team and sharing the latest work.



5. What is a 'conflict' in Git?

A version of the code that has been released to users

Incompatibility between different software versions

Explanation

A conflict in Git occurs when two separate branches have made changes to the same line in a file, or when one branch deleted a

A situation where two branches have changes that cannot be automatically merged

A message displayed when errors occur in the code

file that another branch was modifying. Resolving conflicts is an important part of collaboration and requires careful consideration of the changes made.

6. What does the 'checkout' command do in Git?

Switch between branches and restore files

Delete a branch

Merge changes from another branch

Create a new branch

Explanation

The 'checkout' command is used to switch between branches in a Git repository. It is also used to restore files from the staging area back to the working directory.

7. What is the use of 'git pull' command?

Commit changes to the local repository

Send committed changes to a remote repository

Fetch and merge changes from the remote repository

Switch between branches

Explanation

The 'git pull' command is used to fetch the changes from the remote repository and merge them into the current branch. It is a combination of 'git fetch' and 'git merge' commands.

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8. What is the purpose of the '.gitignore' file in a Git repository?

Store credentials and sensitive information

Specify files and patterns that Git should ignore

Track changes to the local repository

Merge changes from another branch

Explanation

The '.gitignore' file is used to specify intentionally untracked files that Git should ignore. This allows developers to exclude files such as build outputs, logs, and other files that are not essential to the repository's history.

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9. What does a Git conflict look like in the code?

Automatic resolution of conflicting changes

Markers indicating conflicting changes

Error message in the terminal

No visible indication in the code

Explanation

In a Git conflict, the affected file will contain markers that indicate the conflicting changes made by different branches. These markers help the developer identify the sections of code that need to be resolved.

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10. What is the purpose of a Git branching strategy?

Merging all changes into the main branch immediately

Isolating work and enabling parallel development

Explanation

A Git branching strategy allows teams to work on separate features or fixes in parallel by creating and managing multiple

Keeping all changes in a single branch

Hiding the changes from other team members

branches. It helps in isolating work, maintaining a clean history, and enabling collaboration without conflicts.

11. What command is used to create a new branch in Git?

git create-branch

git new-branch

git branch

git make-branch

Explanation

The 'git branch' command is used to create a new branch in Git. This allows developers to work on new features or fixes without interfering with the main development line.

12. What is the purpose of the 'rebase' command in Git?

Integrate changes from one branch into another

Apply changes of one branch on top of another

Delete a branch

Create a new branch

Explanation

The 'rebase' command is used to apply the changes of one branch on top of another branch. It allows for a cleaner, linear project history without the additional merge commits, but should be used with caution when collaborating with others.



13. What does the 'fetch' command do in Git?

Retrieve changes from the remote repository

Merge changes from the remote repository

Send committed changes to a remote repository

Switch between branches

Explanation

The 'fetch' command is used to retrieve changes from the remote repository, allowing the user to see what everyone else has been working on without merging the changes into the current branch.



14. What is the purpose of the 'git log' command in Git?

Track changes in the working directory

Display the commit history of the repository

Create a new branch

Merge changes from another branch

Explanation

The 'git log' command is used to display the commit history of a repository. It shows the author, date, and commit message for each commit, providing a clear view of the project's development timeline.



15. What is a 'pull request' in Git?

A request to delete a branch

A proposal to create a new branch

Explanation

A pull request is a feature in Git used to propose changes and request them to be merged into a project's main branch. It

A request to merge changes into the main branch

A message displayed when errors occur in the code

provides an opportunity for team members to review the code, discuss changes, and collaborate effectively.

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16. What is the purpose of the '.gitattributes' file in a Git repository?

Ignore specific files in the repository

Define attributes for paths and files

Store credentials and sensitive information

Track changes to the local repository

Explanation

The '.gitattributes' file is used to define attributes for paths and files in a Git repository. It allows specifying settings such as end-of-line normalization, merge strategies, and binary handling.