

Quiz

Score: 12/13

1. What is a Git branch?

A separate line of development that diverges from the main line

A commit message

A Git repository

A Git command

Explanation

A branch in Git is a lightweight movable pointer to some commit. It can be visualized as a separate line of development that diverges from the main line.

2. Which command is used to create a new branch in Git?

git init

git checkout -b new_branch

git branch new_branch

git commit -m 'new branch'

Explanation

The 'git branch' command is used to create a new branch in Git and list the existing branches.



3. What is the command to switch to a different branch in Git?

git switch branch_name

git branch_name

git checkout branch_name

git merge branch_name

Explanation

The 'git checkout' command is used to switch to a different branch in Git.



4. What is a merge conflict in Git?

A conflict between two Git repositories

A conflict between two different commits

A conflict that occurs when two separate branches have changes that cannot be automatically merged

A conflict between local and remote branches

Explanation

A merge conflict in Git occurs when two separate branches have changes that cannot be automatically merged.



5. Which command is used to delete a branch in Git?

git branch -r branch_name

Explanation

git delete branch_name

git branch -d branch_name

git remove branch_name

The 'git branch -d' command is used to delete a branch in Git. The '-d' option is used to delete the branch if it has been fully merged with the main branch.

6. What is the purpose of Git branches?

To confuse developers

To complicate version control

To work on separate features, bug fixes, or experiments without affecting the main codebase

To merge all changes into a single codebase

Explanation

Git branches allow developers to work on separate features, bug fixes, or experiments without affecting the main codebase. They provide a way to isolate work and collaborate on changes independently.

7. What is the default branch name in Git?

main

primary

root

Explanation

The default branch name in Git is called 'master'. It is commonly used as the main development branch.

default

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8. What is the command to rename a Git branch?

git branch -r new_name old_name

git mv branch old_name new_name

git branch -M old_name new_name

git branch -m old_name new_name

Explanation

The 'git branch -m' command is used to rename a Git branch. The '-m' option is used to move/rename the branch to the specified new_name.

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9. What does 'git merge' do?

Create a new branch

Delete a branch

Integrate changes from one branch into another

Switch to a different branch

Explanation

The 'git merge' command is used to integrate changes from one branch into another. It combines separate branches and resolves any conflicting changes.

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10. What is a detached HEAD state in Git?

A state with no changes

A state where the HEAD is attached to a branch

A state with changes that are not committed

A state when the currently checked out commit is not associated with a branch

Explanation

A detached HEAD state in Git occurs when the currently checked out commit is not associated with a branch. It is often the result of checking out a specific commit or performing a 'git checkout' command without specifying a branch or tag.

11. What is rebasing in Git?

Creating a new branch

Merging two branches

Moving or combining a sequence of commits to a new base commit

Deleting a branch

Explanation

Rebasing in Git is the process of moving or combining a sequence of commits to a new base commit. It is used to maintain a cleaner and more linear project history.

12. What is the purpose of 'git cherry-pick'?

Ignoring changes in a branch

Undoing the last commit

Explanation

The 'git cherry-pick' command is used to apply a specific commit from one branch to another. It is helpful in picking individual

Applying a specific commit from one branch to another

Creating a new branch

commits to apply them to a different branch.



13. Which command is used to show a graphical representation of the commit history in Git?

git history -graph

git show --graph

git log --oneline --graph --all

git status --graph

Explanation

The 'git log --oneline --graph --all' command is used to show a graphical representation of the commit history in Git.