Git and GitHub Final Quiz

Score: 14/16

1. What is Git?

✓

A version control system for single user

A distributed version control system

A text editor

A programming language

Explanation

Git is a distributed version control system that allows multiple developers to work on the same codebase simultaneously and track changes made to the code.

2. What is the command to create a new branch in Git?

✓

git checkout

git commit -m

git branch

git merge

Explanation

The command 'git branch <branch_name>' is used to create a new branch in Git.

3. What is the purpose of .gitignore file?

To track all files in the repository

To specify files to be ignored by Git

To store GitHub repository settings

To track only the files mentioned in the file

Explanation

The .gitignore file is used to specify untracked files that Git should ignore. It is useful for excluding files generated by the build system, operating system, or editor.

4. What does the 'git merge' command do?

Create a new branch

Discard all changes in the current branch

Combine changes from one branch into another

Push changes to remote repository

Explanation

The 'git merge' command is used to combine the changes from one branch into another. It integrates changes from the specified branch into the current branch.

5. What are Git snapshots?

Pointers to the latest code changes

A record of the project's state at a specific time

Explanation

Git snapshots are a record of the state of a project at a given point in time. They capture the entire repository at that point, including

Only the changes made to the files

Files with errors

all files and folder structure.

6. How can you revert to a previous version of a file in Git?

git restore

git reset

git revert

git checkout

Explanation

You can use the 'git checkout' command followed by the commit hash and file name to revert to a previous version of a file in Git.

7. What is the purpose of Git branches?

To share code with other developers

To isolate work and make independent changes

To delete code from the repository

To create new repositories

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 merge changes when ready.

8. What is Git tagging used for?

Marking specific points in history as important

Deleting specific commits

Renaming branches

Ignoring specific changes

Explanation

Git tagging is used to mark specific points in history as being important, such as release points. It is often used to indicate version numbers or significant commits.

9. What is the command to create a new tag in Git?

git create

git tag

git mark

git label

Explanation

The command 'git tag <tag_name>' is used to create a new tag in Git at the current commit.

10. What does the 'git reset' command do?

Move the HEAD to a specific commit

Discard changes in the working directory

Explanation

'git reset' is used to undo changes in a repository, move the HEAD and current branch pointers to the specified state, and possibly

Add new changes to the repository

Push commits to a remote repository

alter the index and the working tree.

11. What is the purpose of .gitignore?

To track all files in the repository

To specify files to be ignored by Git

To store GitHub repository settings

To track only the files mentioned in the file

Explanation

The .gitignore file is used to specify untracked files that Git should ignore. It helps prevent untracked files from being included in the commit history or cluttering the workspace.

12. What is the significance of Git for team management?

Individual code management only

Efficient collaboration and conflict management

Limited access control

No support for parallel development

Explanation

Git allows teams to collaborate on the same codebase efficiently, manage conflicts, track changes, and maintain a history of the project. It enables parallel development and supports branching for independent work.

13. What is the technique to ignore files in Git?

Using git block

Using .gitignore file

Using git exclude

Using git ignore

Explanation

Files or directories to be ignored by Git are specified in the .gitignore file using patterns and wildcards. This helps in excluding unnecessary files from being tracked.

14. How do Git and GitHub manage project tickets and issues?

They do not support ticket and issue management

They provide features for creating and tracking issues

They only support code management

They are used for documentation only

Explanation

Git and GitHub provide features for creating, assigning, tracking, and resolving project tickets, issues, and bug reports. They enable team members to collaborate on issue resolution and track progress.

15. What is the command to create a new branch and switch to it in Git?

git branch

git checkout

git switch -c

git checkout -b

Explanation

The command 'git checkout -b <branch_name>' is used to create a new branch and switch to it in Git.

16. **What is the purpose of Git snapshots?**

To store only the changes made to the files

To track the latest code changes

To capture the entire project state at a given time

To store only the committed files

Explanation

Git snapshots capture the state of a project at a specific point in time, including the entire repository's content. They do not store just the changes made but rather the complete project state.