

Initialize a New Git Repository

1.Question: How do you initialize a new Git repository in the current directory?

Answer: git init

Clone a Repository

2.Question: How do you clone a repository from GitHub using the URL

<https://github.com/user/repo.git>?

Answer: git clone <https://github.com/user/repo.git>

Check the Status of the Repository

3.Question: What command do you use to check the current status of the working directory and staging area?

Answer: git status

Add a File to the Staging Area

4. Question: How do you add a file named index.html to the staging area?

Answer: git add index.html

Commit Changes

5. Question: Write the command to commit changes with the message 'Initial commit'.

Answer: git commit -m 'Initial commit'

Create a New Branch

6. Question: How do you create a new branch named feature-branch?

Answer: git branch feature-branch

Switch to Another Branch

7. Question: Write the command to switch to the branch feature-branch.

Answer: git checkout feature-branch

Merge Branches

8. Question: How do you merge the branch feature-branch into the current branch?

Answer: git merge feature-branch

View Commit History

9. Question: What command do you use to view the commit history?

Answer: git log

Fetch Updates from Remote Repository

10. Question: How do you fetch updates from the remote repository without merging them?

Answer: git fetch

Push Changes to Remote Repository

11. Question: Write the command to push changes to the remote repository named origin on the branch main.

Answer: git push origin main

Revert a Commit

12. Question: How do you revert a commit with the hash a1b2c3d?

Answer: git revert a1b2c3d

Create and Apply a Stash

13. Question: How do you create a stash and then apply it later?

Answer: To create a stash: git stash AND To apply the stash: git stash apply

List All Branches

14. Question: What command lists all branches in the repository?

Answer: git branch

Delete a Branch

15. Question: How do you delete the branch old-feature?

Answer: git branch -delete old-feature

Check the Differences Between Two Commits

16. Question: How do you check the differences between two commits with hashes a1b2c3d and d4e5f6g?

Answer: git diff a1b2c3d d4e5f6g

Create an Annotated Tag

17. Question: How do you create an annotated tag named v1.0 with the message 'First release'?

Answer: git tag -a v1.0 -m 'First release'

List Tags

18. Question: What command lists all tags in the repository?

Answer: git tag

Configure Git Username and Email

19. Question: How do you set the global username to 'JohnDoe' and email to johndoe@example.com?

Answer: To set the username: git config --global user.name 'JohnDoe'

And To set the email: git config --global user.email 'johndoe@example.com'

Remove a File from the Staging Area

20. : How do you remove a file named test.txt from the staging area without deleting it from the working directory?

Answer: `git reset test.txt`

View Changes in the Working Directory

21. Question: What command shows changes in the working directory since the last commit?

Answer: `git diff`

Create a New Remote Repository

22. Question: How do you add a new remote repository named upstream with the URL <https://github.com/user/repo.git>?

Answer: `git remote add upstream https://github.com/user/repo.git`

Rename a Branch

23. Question: How do you rename the current branch to new-branch-name?

Answer: `git branch -m new-branch-name`

Show the Commit History in a Compact Format

24. Question: Write the command to show the commit history in a compact format with one line per commit.

Answer: `git log --oneline`

Amend the Last Commit

25. Question: How do you amend the last commit with a new message 'Updated commit'?

Answer: `git commit --amend -m "Updated commit"`