

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

-> git init

2. How do you clone a repository from GitHub using the URL <https://github.com/user/repo.git>?

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

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

-> git status

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

-> git add index.html (command)

5. Write the command to commit changes with the message "Initial commit".

-> git commit -m "Initial commit"

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

-> git branch feature-branch

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

-> git checkout feature-branch

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

-> git merge feature-branch

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

-> git log

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

-> git fetch

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

-> git push origin main

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

-> git revert a1b2c3d

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

-> git stash to create

-> git stash apply to apply

14. What command lists all branches in the repository?

-> git branch

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

-> git branch -d old-feature

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

-> git diff a1b2c3d d4e5f6g

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

->git tag -a v1.0 -m "First release"

18. What command lists all tags in the repository?

-> git tag

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

->git config --global user.name "JohnDoe"

->git config --global user.email [johndoe@example.com](mailto:johndoe@example.com)

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

-> git reset HEAD test.txt

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

->git diff

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

-> git remote add upstream https://github.com/user/repo.git

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

-> git branch -m new-branch-name

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

-> git log --oneline

25. How do you amend the last commit with a new message "Updated commit"?

-> git commit --amend -m "Updated commit"