

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

Answer:- `git init`

2. 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`

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

Answer:- `git status`

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

Answer:- `git add index.html` (command)

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

Answer:- `git commit-m "Initial commit"`

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

Answer:- `git branch feature-branch`

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

Answer:- `git checkout feature-branch`

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

Answer:- `git merge feature-branch`

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

Answer:- `git log`

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

Answer:- `git fetch`

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

Answer:- `git push origin main`

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

Answer:- `git revert a1b2c3d`

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

Answer:- `git stash to create`

`git stash apply to apply`

14. What command lists all branches in the repository?

Answer:- `git branch`

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

Answer:- `git branch-d old-feature`

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

Answer:- `git diff a1b2c3d d4e5f6g`

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

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

18. What command lists all tags in the repository?

Answer:- `git tag`

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

Answer:- `git config --global user.name "JohnDoe"`

`git config --global user.email johndoe@example.com`

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

Answer:- `git reset HEAD test.txt`

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

Answer:- `git diff`

22. 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`

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

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

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

Answer:- `git log --oneline`

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

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