

1. **Question:** How do you initialize a new Git repository in the current directory?
Answer: ``git init``
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``
3. **Question:** What command do you use to check the current status of the working directory and staging area?
Answer: ``git status``
4. **Question:** How do you add a file named index.html to the staging area?
Answer: ``git add index.html``
5. **Question:** Write the command to commit changes with the message "Initial commit"?
Answer: ``git commit -m "Initial commit"``
6. **Question:** How do you create a new branch named feature-branch?
Answer: ``git branch feature-branch``
7. **Question:** Write the command to switch to the branch feature-branch.
Answer: ``git checkout feature-branch``
8. **Question:** How do you merge the branch feature-branch into the current branch?
Answer: ``git merge feature-branch``
9. **Question:** What command do you use to view the commit history?
Answer: ``git log``
10. **Question:** How do you fetch updates from the remote repository without merging them?
Answer: ``git fetch``
11. **Question:** Write the command to push changes to the remote repository named origin on the branch main.
Answer: ``git push origin main``
12. **Question:** How do you revert a commit with the hash a1b2c3d?
Answer: ``git revert a1b2c3d``
13. **Question:** How do you create a stash and then apply it later?
Answer: 1. ``git stash`` to create a stash
2. ``git stash apply`` to apply the stash

14. **Question:** What command lists all branches in the repository?
Answer: ``git branch``
15. **Question:** How do you delete the branch old-feature?
Answer: ``git branch -d old-feature``
16. **Question:** How do you check the differences between two commits with hashes a1b2c3d and d4e5f6g?
Answer: ``git diff a1b2c3d d4e5f6g``
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"``
18. **Question:** What command lists all tags in the repository?
Answer: ``git tag``
19. **Question:** 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. **Question:** 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``
21. **Question:** What command shows changes in the working directory since the last commit?
Answer: ``git diff``
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``
23. **Question:** How do you rename the current branch to new-branch-name?
Answer: ``git branch -m new-branch-name``
24. **Question:** Write the command to show the commit history in a compact format with one line per commit.
Answer: ``git log --oneline``
25. **Question:** How do you amend the last commit with a new message "Updated commit"?

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