

ASSIGNMENT - 1 (GIT CODING QUESTIONS)

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`
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 -m "create a stash"`
 - `git commit -m "test stash"`
 - `git stash list`
 - `git stash apply stash@{0}`
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`

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"`