

Git QNA

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

```
> git clone https://github.com/trainin2024/wipro.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 -u 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 restore --staged test.txt
```

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

```
> git diff head
```

22.How do you add a new remote repository named upstream with the URL?

```
> git remote add origin https://github.com/user/upstream.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"
```