1.What is Git and why is it used?

Git is version control system and it used to keep track of each version letting the us go to back-forth in version , keep file safe and multi\_tasks for single project and so on..

2.Explain the difference between Git pull and Git fetch.

Git fetch will only download the update of local repository and Git pull will integrate those updates from remote repository to local machine immediately

3.How do you revert a commit in Git?

We can revert a commit using command : git revert <hash code>

4.Describe the Git staging area?

Git staging area is place where file are put to or kept before committing .

5.What is a merge conflict, and how can it be resolved?

A merge conflict in Git occurs when Git is unable to automatically resolve differences between the changes made on two different branches that are being merged.

Identify the conflicted files using git status.

Open each conflicted file in a text editor to manually resolve the conflicts.

6.How does Git branching contribute to collaboration?

It contributes in various ways such as : squashing commands , maintaining clean history and resolving conflicts and so on

7. What is the purpose of Git rebase?

The purpose of Git rebase is to integrate changes from one branch into another by moving or combining a sequence of commits onto a new base commit.

8. Explain the difference between Git clone and Git fork.

Git clone is used to create a local copy of a remote repository and git fork refers to the process on Git hosting platforms (like GitHub)

9.How do you delete a branch in Git?

Git branch -d <branch-name> using this command

10. What is a Git hook, and how can it be used?

A Git hook is a script that Git executes before or after specific Git events, such as committing, merging, or pushing code to a remote repository