1.What is Git and why is it used?

* Git is an open source version control system. Git tracks the changes we make to files and therefore records the steps. It also makes collaboration easier by allowing multiple people.

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

* Git pull copies changes from a remote repository directly into our working directory, while git fetch does not. Git fetch copies changes into our local github repo. Git pull command does both.

3.How do you revert a commit in Git?

* If we want to revert a Git commit called gqkll452383njkk. We have to use the following command.
* ‘git revert gqkll452383njkk’

4.Describe the Git staging area.

* Staging area is a file contained in our Git directory, that stores information about what will go into our next commit.

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

* It occurs when people make different changes to the same line of the same file or when one edits one file and another person deletes the same file.

6.How does Git branching contribute to collaboration?

* Fetch and merge changes from the remote.
* Create a branch to work on a new project feature.
* Develop the feature on a branch and commit the work.
* Fetch and merge from the remote again (in case new commits were made)
* Push branch up to the remote for review.

7. What is the purpose of Git rebase?

* Git rebase helps to maintain a progressively straight and cleaner project history.

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

* A fork creates a completely independent copy of the Git repository. A Git clone creates a linked copy that will continue to synchronise with the target repository.

9.How do you delete a branch in Git?

* Delete a branch with git branch -d <branch>

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

* Git hooks are scripts that run automatically every time a particular event occurs in a Git repository.