**INTERVIEW QUESTIONS**

Q1:What is the main utility of Git and GitHub? What is the difference between them?

ANS: Git and GitHub are used for Version Control. Git is a distributed version control system. It is a tool to manage your project source code history. GitHub is a web-based Git file hosting service that enables you to showcase or share your projects and files with others.

Q2: What is the flow of commands used for contributing to an open source project?

ANS: 1. Fork the Repository:

2. Create a Branch:

3. Make Changes:

4. Commit Changes:

5. Sync with Upstream:

6. Resolve Conflicts (if any):

7. Push Changes:

8. Create Pull Request:

9. Review and Collaboration:

10. Update Your Branch:

11. Merge the Pull Request:

12. Cleanup:

Git fork   
Clone  
Make the changes in the local system  
Git push  
Pull request

Q3: What is the difference between ‘git fork’ and ‘git clone’ commands?

ANS: Git fork is used to copy the open source project into your private GitHub repository and git clone is used to download any GitHub repository into your local system.

Q4: What are the uses of branching?

ANS: It allows developers to create separate lines of development, isolate changes, and work on multiple features or bug fixes concurrently.

Branching is used when you want to perform experimentation either in your individual project or a group project. We can edit our code in these branches without disturbing the stable code.

Q5: Can you tell the differences between git revert and git reset?

ANS: In order to revert back to the previous commit, the git revert is used.

In order to go back to a commit that was >2 commits back, the git reset is used.

git revert creates a new commit which shows that you have reverted back to the previous commit whereas git reset goes back to the specified commit ID and erases all the commits after that. You need to be very careful about using ‘git reset’ as you will lose all the commits that you have done.

Q6: What is a commit message?

ANS: git commit requires a commit message so that developers can identify what changes was made in that particular commit.