**Quiz7\_Ashish**

1)What is Git ?

Ans : Git allows a team of people to work together, all using the same files. And it helps the team cope with the confusion that tends to happen when multiple people are editing the same files.

2) In what form is Git being used in your Company ?

Ans: We Use Command Line

3) What are the different Tools that you integrated Git with in your company ?

Ans: Jenkins, Maven

4) What are Git hooks ?

Ans: Git hooks are scripts that run automatically every time a particular event occurs in a Git repository. They let you customize Git’s internal behavior and trigger customizable actions at key points in the development life cycle.

5) Give us an example of a Git Hook that you implemented?

Ans: The pre-commit script is executed every time you run git commit before Git asks the developer for a commit message or generates a commit object. You can use this hook to inspect the snapshot that is about to be committed. For example, you may want to run some automated tests that make sure the commit doesn’t break any existing functionality.

6) List all commands a developer uses to push to git starting from clean workspace ?

Ans: Git Clean.

Git Add file

Git Status.

Git Commit -m"message".

Git Status.

Git Log.

Git Push origin Master.

7)Difference between Git push and Git pull

Ans: git pull

Fetches the files from the remote repository and merges it with your local one. This command is equal to the git fetch and the git merge sequence. Example: git pull origin

git push

Pushes all the modified local objects to the remote repository and advances its branches. Example: git push origin maste

8) Different between Git Rebase and git pull

Ans : git rebase Called when rebasing a branch. Mainly used to halt the rebase if it is not desirable.

$ git pull

Downloads bookmark history and incorporates changes

9) How do you what branch you are currently on ?

Ans: git branch

10) How do you what other git branches exist on the git server ?

Ans : git branch

11) what is a git remote ?

Ans: git remote

Shows all the remote versions of your repository. Example: git remote origin

12) How can you temporarily save changes before pulling/merging or switching branches?

Ans : git checkout master

git pull

git merge file

git pull # if needed

git push

13) difference between git branches and git tags ?

Ans : git branch

Lists existing branches, including remote branches if ‘-a’ is provided. Creates a new branch if a branch name is provided. Example: git branch -a \* master remotes/origin/master

git tag Tags a specific commit with a simple, human readable handle that never moves. Example: git tag -a v1.0 -m 'this is version 1.0 tag'

14) what are different types of git tags available ? give exact commands on how to create each type of tag ?

Ans: $ git tag

v0.1

v1.3

git tag v1.0.0 -m 'finally a stable release'

git tag v2.0.0 -m 'oops, there was still a major bug!'

15) what command do you use to merge two branches ? give example

Ans: git checkout master

git merge test\_repo

16) How do you know current state of your workspace to that on git server ?

17) What command is used to fetch the latest updates by others?

Ans : git fetch [<options>] [<repository> [<refspec>…​]]

git fetch [<options>] <group>

git fetch --multiple [<options>] [(<repository> | <group>)…​]

git fetch --all [<options>]

18) What command is used to create a git repo for your personal development?

Ans: git init newrepo

19) Explain the relationship between the working directory,

the index, the repository

20) How can a Git merge fail? What do you do?

Ans : When this sort of conflict occurs, Git writes a special block into the file that contains the contents of both versions where the conflict occurred. To complete this type of merge, use your text editor to resolve the conflict, then add the file and commit it to complete the merge.

For this example, suppose you're working in branch-a, and have made some changes to a file called planets.md. Meanwhile, your friend on the other side of the world has made a different change to the same line. If you try to merge your friend's branch into yours, there will be a merge conflict. Running git status tells you about the conflict:

21) what command do you use to know list of previous commits ?

Ans : Git Log

22) What is 3a525393f6a5c47fa08d91ef16c16927ed3cd33a? What are the benefits of this?

Ans : SSH key, To give permissions to the devices to access the directory.

23) command to rename a file in Git?

Ans : mv oldfolder newfolder

24) What git command is used to undo changes made to your local repo? What are the variations and how do they work?

Ans : $ git commit -m 'initial commit'

$ git add forgotten\_file

$ git commit --amend