

# GIT

## INTERVIEW QUESTIONS

### PART - 1

1. What is Git?

→ Git is the most popular, open-source, widely used, and an example of distributed version control system (DVCS) used for handling the development of small and large project in a more efficient and neat manner.

2. Why Git is used?

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→ Git is the most popular, open-source, widely used and it is most suitable when there are multiple people working on it/projects as a team and is used for tracking the project changes and efficiently supports the collaboration of the development process.

\* With the help of versioning system, the developer can identify who has made what changes and then run tests and fix bugs if any and then do necessary feature implementation. In case of any unforeseen circumstances, the code can be reverted to any of the previously working versions thereby saving huge efforts.

### 3. What is a version control system?

⇒ A VCS keeps track of the contributions of the developers working as a team on the projects. They maintain the history of code changes done and with project evolution, it gives an upper hand to the developers to introduce new code, fix bugs and run tests with confidence that their previously working code could be restored at any moment in case things go wrong.

### 4. What is a git repository?

⇒ A repository is a file structure where git stores all the project-based files. Git can either store the files on the local or the remote repository.

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### 5. What does git clone do?

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⇒ The command creates a copy (or clone) of an existing git repository. Generally, it is used to get a copy of the remote repository to the local repository.

### 6. What does the command git config do?

⇒ The git config command is a convenient way to set configuration option for defining the behavior of the repository, user information and preferences, git installation based configuration, and many such things.

For example:

To set up your name and email address before using git commands, we can run below commands:

\* `git config --global`

`user.name`

"<< your-name >>"

\* `git config --global user.email "<<your-email>>"`

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7. Can you explain head in terms of git and also tell the number of heads that can be present in a repository?

→ \* A head is nothing but a reference to the last commit of a branch.

\* For every repository, there will always be a default head referred to as "master" or now "main" (as per Github) but there is no restriction to the count of heads available. In other words, it can have any no. of heads.

\* Usages :-

\* To go or checkout to 1 commit before the latest commit, we use `git checkout Head~1`

\* To uncommit the last 3 commits without losing the changes, we first run `git reset Head~3`. Then we can see the changes made in the last 3 commits

and then update it manually and commit it finally.

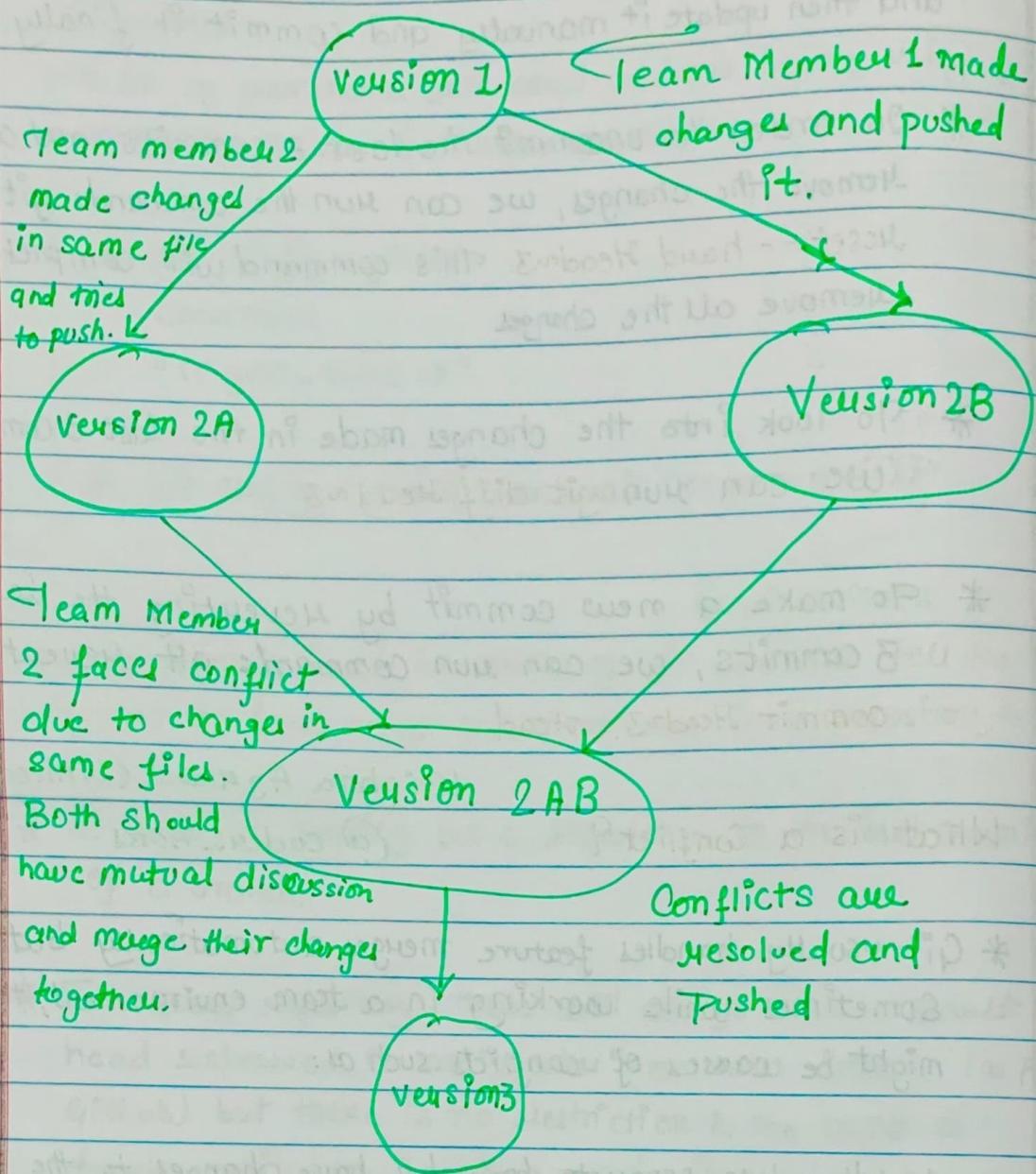
- \* In order to uncommit the last 3 commits and also remove the changes, we can run the command: `git reset -- hard Head~3`. This command will completely remove all the changes.
- \* To look into the changes made in the last 3 commits, we can run `git diff Head~3`
- \* To make a new commit by reverting the last 3 commits, we can run command: `git revert --no-commit Head~3..head`

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## 8. What is a Conflict?

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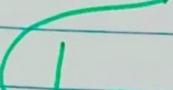
- \* Git usually handles feature merges automatically but sometimes while working in a team environment, there might be causes of conflicts such as:
1. When two separate branches have changes to the same line in a file.
  2. A file is deleted in one branch but has been modified in the other.
- \* Those conflicts have to be solved manually after discussion with the team as git will not be able to predict what and whose changes have to be given precedence.



Q. What is the functionality of git ls-tree?

→ The command returns a tree object representation of current repository along with the mode and the name of each item and SHA-1 value of the blob.

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