GIT

Q1) What is Git?

=) Git is an open-source distributed version control system. It is used to manage source code and other file in software development projects.

Q2) What do you understand by the term 'Version Control system'?

=) A Version Control system is a software that tracks changes to a file or set of files over time so that you can recall specific version later. It uses a special kind of database to keep track of every modification to the code.

Q3) What is GitHub?

=) GitHub is a Git repository hosting service. GitHub also facilitates with many of its features, such as access control and collaboration. It provides a web based graphical interface.

Q4) Mention some popular Git hosting services.

=) i) Bitbucket
ii) GitHub
iii) GitLab
iv) perforce
v) Beanstalk
vi) AWS CodeCommit.

Q5) Different types of Version Control systems?

⇒ There are 3 types of VCS

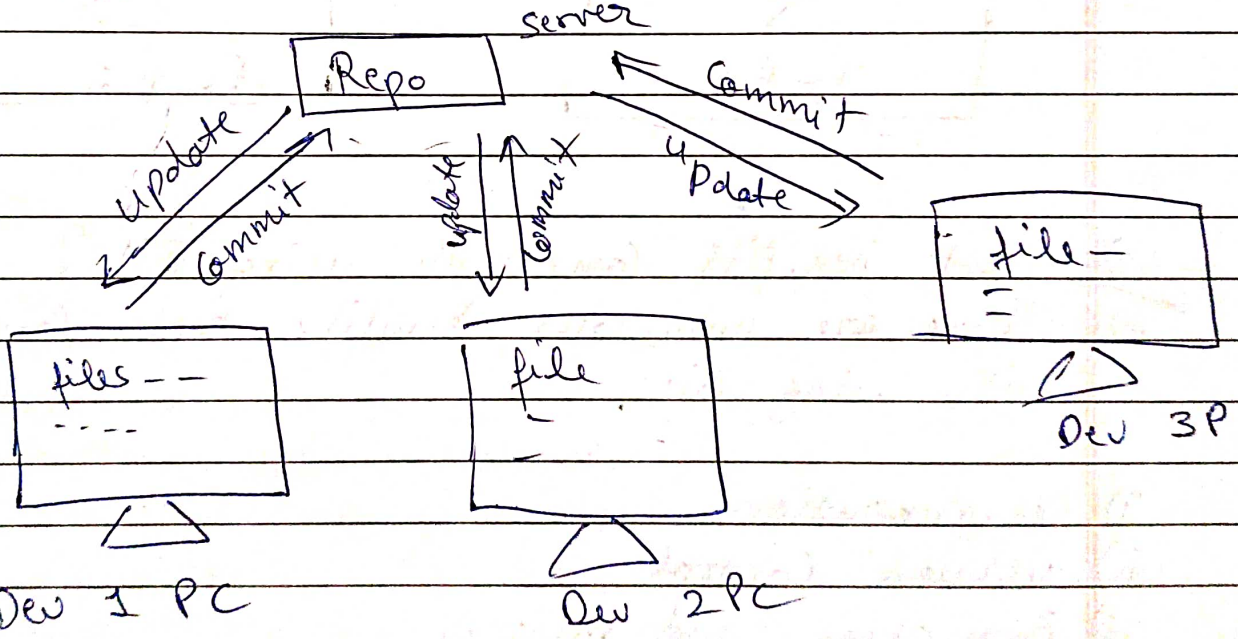
i) local Version Control system (LVCS)
ii) Centralised Version Control System (CVCS)
iii) Distributed Version Control System (DVCS)

i) LVCS

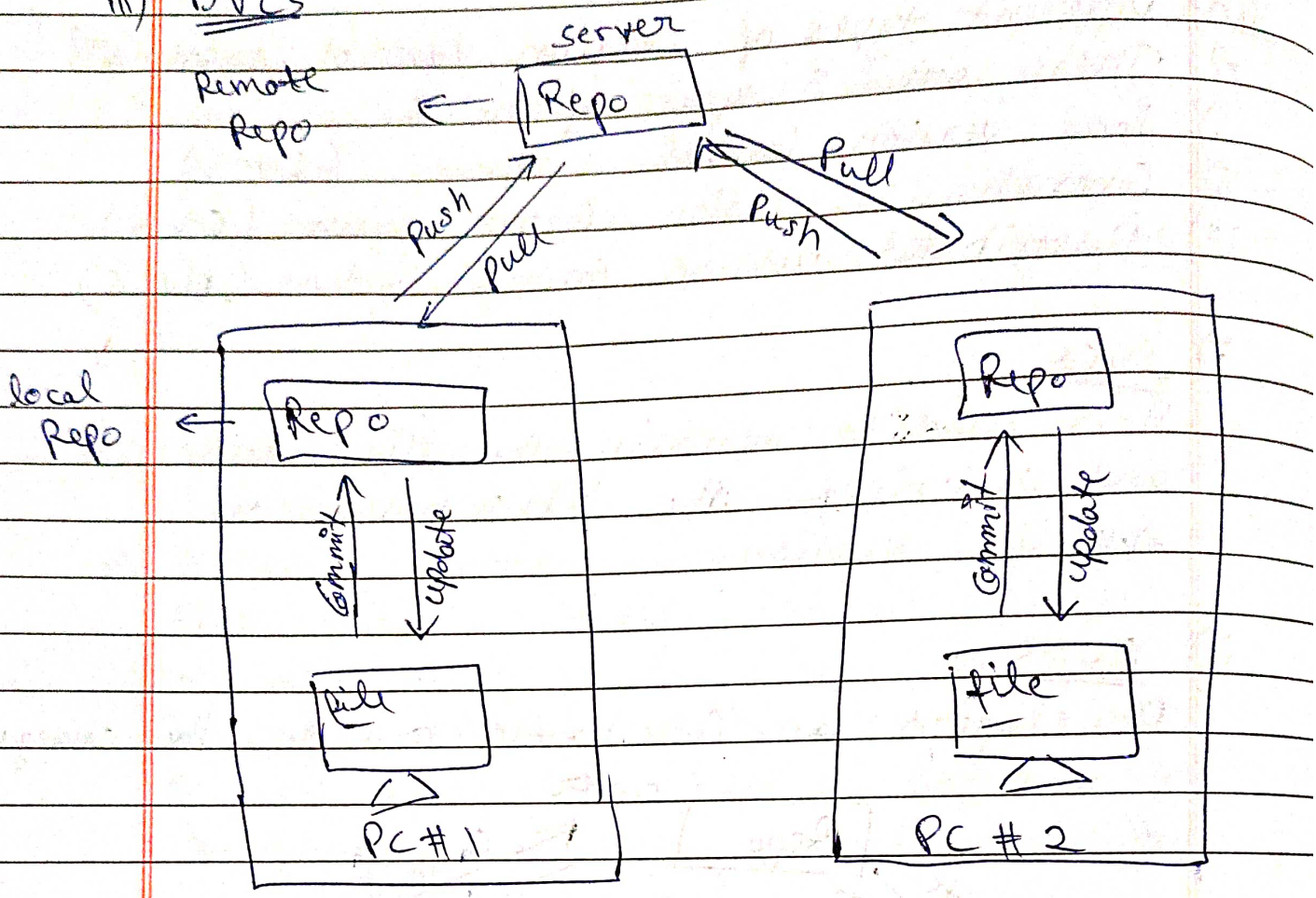
It is used to maintain the file version and retrieve the files based on specific version.

ii) CVCS

Developers can Collaborate and do the changes



iii) DVCS



Q6) What benefits come with using Git?

⇒ There are numerous benifits that come with using Git.

i) Collaboration
ii) Version Control
iii) Branching and merging
iv) Backup and recovery
v) Code reuse
vi) Integration

Q8) What is a Git repository?

⇒ A Git repository is a data structure that Git uses to store all the information related to a project. It contains all the files, directories, and subdirectories that make up the project, as well as the entire history of change made to those files over time.

Q8) How can you initialize a repository in Git?

⇒ From "git init" Commond we can initialize a repository in Git