@ local Version Control System: sit is used to maintain the file version and retreive the files bared on the Specific Version.

	hard	hard disk	
C	Cdrive	E - Drive	
File	file-1.0 V	file-1.1V	
2439		FDrive	
	file-1.2V	F Drive file-1:3V	
lained in be		per Machine	

Drawbacks :-

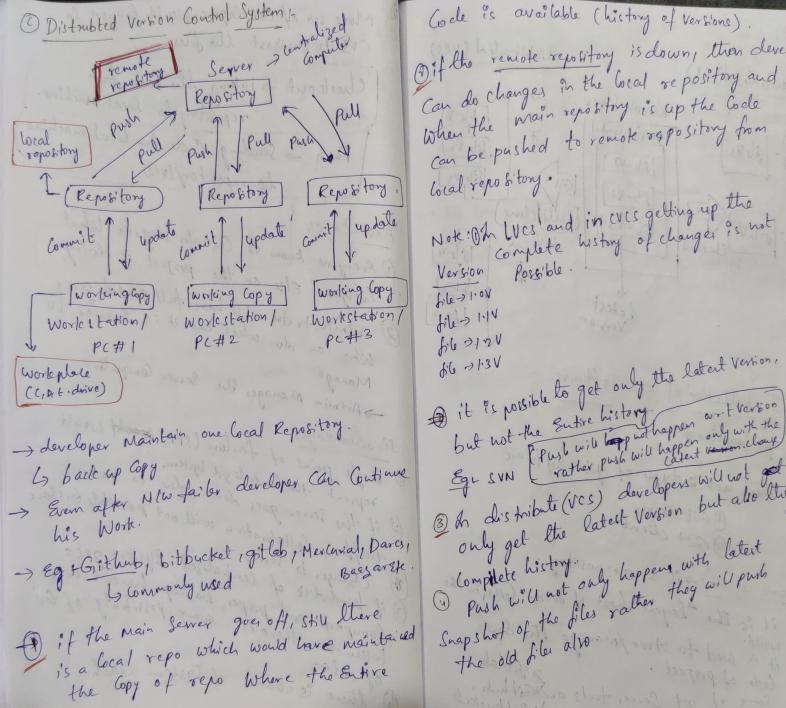
Oit is Easy to forget in which driver you are in and accidentally write data to the wrong file (or) Copy from other files.

(2) loss of data due to Virus (on problem in Hard disk (or) local Machine.

(3) there is possible loss of secured data. (9) By Mistale we can delet few diles also

-> To over come the drawbacks of local (ves) we have u Centeralized VCS

(b) Centralized Version Coutrol System: More no of developers would Connect to anisted by et Server Computer (server computer) CVS to checkout the files; cheeleout -> taking the Gode from repository to local machine. Repository update commit Pash -> Sending Code from Cocal machine to repository (vcs). @ Everyone know to Certain degree What Worling Copy Worling Copy Copy Everyone Else on the project is doing. PC#3 a) Adminstrator will have full control over who can do what and it is Earler to workstation (PC#1 PC#2 -) all developers Code is maintained in Single Computer (or) Repository (on Sever Server Computer Admin Manages the Server Computer. -> it is Called Centralized Server. O Single point of failure (SPF) would -> Centralized Version Computer O Developer's Can Collaborate the Code in one repository and do the change. Egs Subversion Perforce. Centralized Software reprent the Centralized System. Dif the server goes down due to network traffic, Collabration will not possible consac Oif hardidisk of centralized System gets
Corrupted and proper bailcup haven't been
tolcum then there is given possiblity of loss
of data: 1 Centralized Version Sewer will have Single Server that Contains all the Version files. 3 for many boosing years this has been the steendard Version Control System. there is chance of System Crash.



Code is available (history of versions). Dif the remote repository is down, then developed

Can do changes in the local repository and When the main repository is up the Cocle can be pushed to remote rapository from

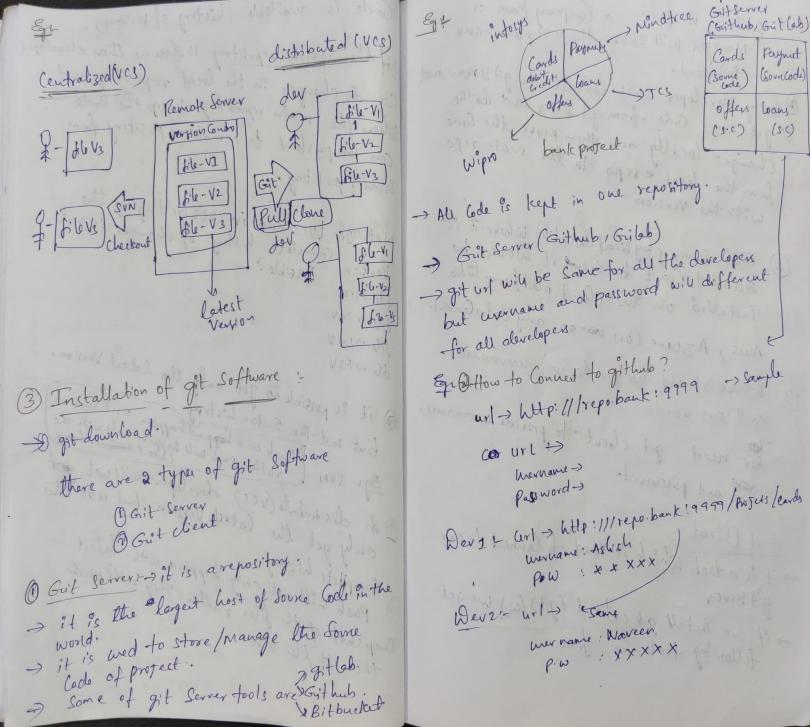
Note: Oh LVCs' and in CVCs getting up the

Complete history of changes is not

Version Possible.

But not the Sutire history with happen only with the Equ SVN Prush will happen with happen with the catent warm. change

3 & distribute (VCS) developers will not got only get the latest Version but also the



Note of When we join a Company team or Manager will share the art, wername, Every developer will connect to git server and

get Source Code from got server and do the Changes locally and then move the Gode from the local e repo to the main repo with the Version.

(3) Get server physical location where it is I destalled Can't be seemed it would be seemed it would be installed on the cloud platform like Aws, Azwere (or) our on any data Centers.

(3) Where should we provide ur, wername

and password? The provide wirnamy we need git client to provide wirnamy and password.

Sat Client
it is a tool which is and to Connect to our
gitserver

of we hatall get extient (gets/w) we get following tools for free

@ git bash > linux Commands are required. (6) git gui > Grophical wer deterface where all the actions will be done through clicles.

(c) git (md => Command line tools where

developers Should provide url, merhane and password.

Ogit - Client tool Where client should provide Url,
wername and password.
Ogithub :- Server Software Where repositores

Will be maintained.

(4) Git Architecture we cannot push data from working Area to Remote Server diretly Worleing Area Stage Area Repository Remote server local System/ Daveloper machine, (914 client is installed) Pull
getting data from reportor
working area.

-> git Architecture tollows 3 regions (i) working areat developer will write coole and keep it in local drives. ((,t,fdn'n) (6) Longe Source Code. Adata Cannot push directly from working Area to Remote server Add work Space to stage Area.

L) by Add cmd. (3) We connot push data from stage Area to Repository directly. (Push it to local repository from stage Area. Lo Commit (Command is used.)

for pushing from

stage- are a to repository (3) data Can be sent from local reporto Remote server by providing urli merrane and password. (6) data can be I taken from repo to loss working Area by pull CMd.

- B) stage area: once the Code is ready, then
 it will be added to stage area (indication to
 git software)
- C beal repository: once the Code is In Stage area, we Commit it to the Cocal repository with some standard mexage, from local with some standard mexage, from local repository we "push" to main repository by providing url, username and password by providing url, username and password.