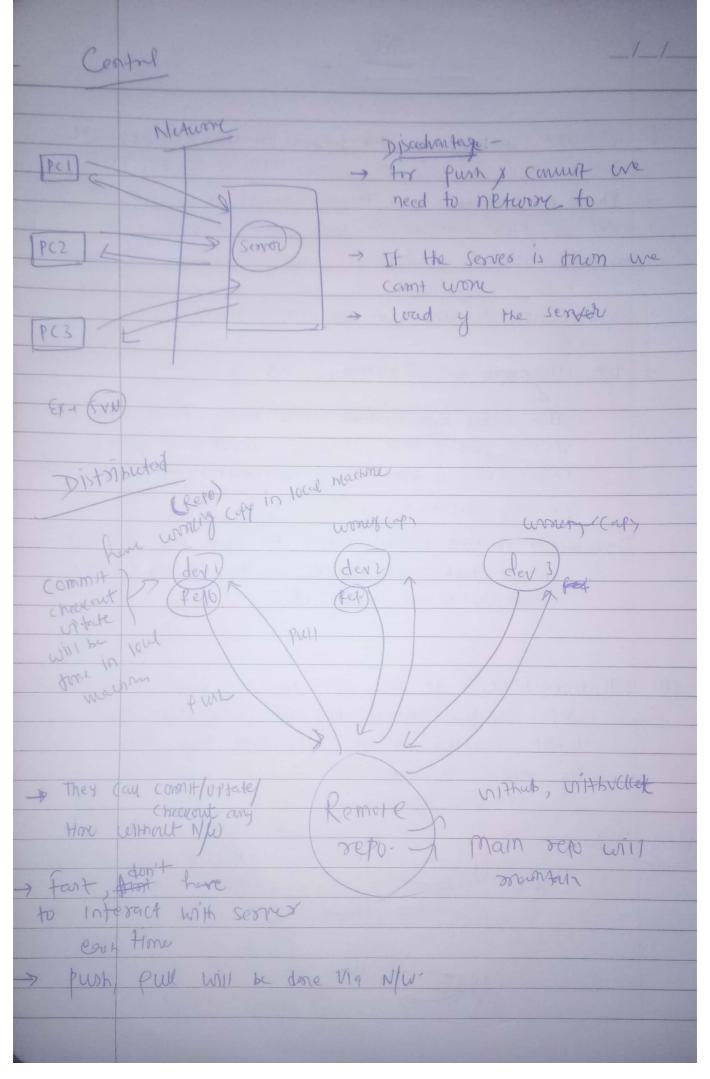
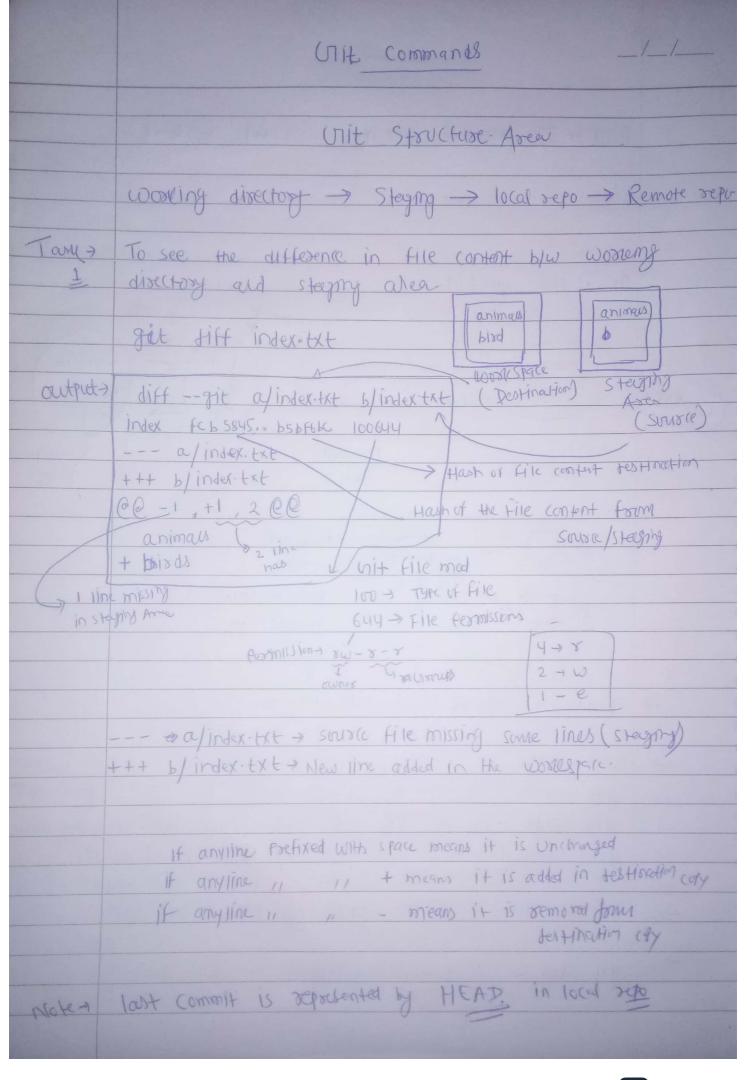
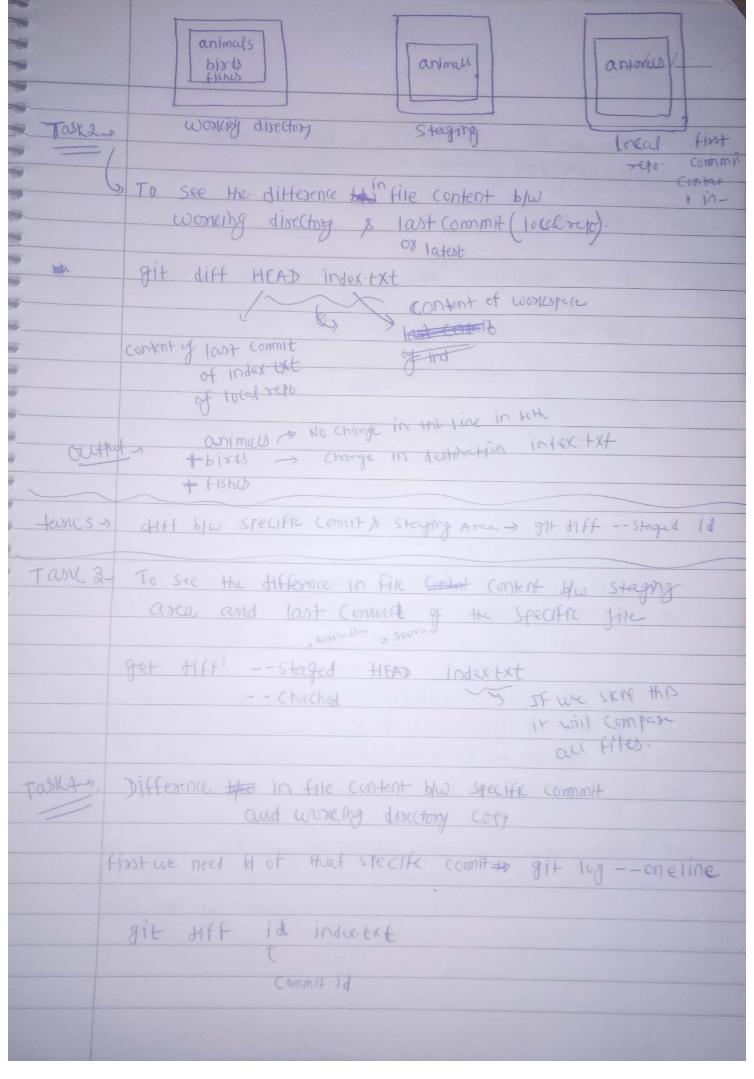
	<u>Git</u> _/_/_
	Vetision control system > feature (Branching & Merzing, work simultaneous, history)
	Set of files overtime so that you can cell Specific version leter.
-)	Allow work together with the Programmers
→	Type > (1) (entral (cs ("))) istributed vcs
	These system have a single server that contained the versioned files & some circuits to checurret files from central place, Administrator has control over the developen
	Ex+ (VS, subression.) rambaer(> It when central serves to store all dB, But due to single point failure, in the central serves, developer do not profes it.
(11)	Distributed VCS In this, user has a local copy of a sepo. so, the clients don't just check out the latest snapsnot of the firs evon they can
Meed	feely missor the reformation of vestion of vestion of the parts of the presion of
	(dev) -> share (dev) -> share (dev) -> share



(Tit > Distributed version confrol systems Architecture of wit cione wo sung Stegling/indu WH Withub Maryband 10 Cal Uptate Rennote Tracked Comited Remote file file Branchmy Remote Mesgry Rego Resolve Conflict Matter (git se local sepo in machine Initialise WOOKSPERI for water. init To add all files in staggly Are 914 add - A // git commit -m " Message" // To add files in 10 cal git seto. 11 To show all status of File git log > // commit history







Tank-	To see the content diff in file between 2 Specified commits:
	git tiff 111 ida.
Tame-	To see differences to in content blu 2 branches
	git diff branch branche
	Ketho
	Removing files
	git 15-files > Files present in steging when Remove files from both steging were & working directory git ron filename , git rm - 8.
	G TO remore all files.
→ ·	git om cached filename -> TO remove file form staging git om -f filename -> To delete from staging worden only on filename -> To remove file form workers Area
	Cat filename > TO see content of file
	got checkart filename -> to undo the content of working directory as staying Area content of the file

	init reset command _/_/_
1)	To remove changes from staging area
11)	To undo commits at repo level.
-	
7	git reset is just apposite of git add commands.
1/7	git reset filename + filename file will be
	It will not affect working direct
	file.
	Oth oth (ile
	womeny Steeping Area
	Directory git reset file
	7 711 8001 110
11)	To undo committee out servet amoles as ille
	To undo commiss git reset < mode> < committed>
→	mode will decide wheather these changes are going to
	remore form staging area and working dir. or not.
0	reset with mixed modes (Default mode)
د	To discard commits DIScard/Undo From 91+ local repo.
5	& culsu staging area. Working dix. will not facted.
EX->	git reset mixed id -> push the id of which
	Cormit conse up to
	Which comit you want to have
	Ber " / 7
	After son a (5)
	10 WE
	3 Cars this
	id. (Ta

	//_
b)	reset with soft mode > 9th reset soft 1d
→	It is exactly same asmixed mode, but changes are available in working directory as well as in
1 N	Remore Commit form local relo ont

->	we can revest with git commit to revert back
9	The state of the s
->	Steeping area, working directory) No way to revert.
7	
	git reset hard committed
	git scret hard HEADNI // Move head one step backward
	C3 8 Head After
	C ₁
*	git reset filename git reset -staged - > To remove att files from
	Staging area to working directory Again we can git add to stage from working directory
*	git checkaut <file> + To discard changes in wesking</file>

Wit branching tivue another breach and 1 Branching - without tisturbing really master branch me can get a copy of master branch and then, we can develop new feature imparallel Other der will also work to develop another purpose > To work parallel along with teammate. Code of master will be unaffected/clean. All branch are isolated master (C) - (3) EX-> Weste, Inche branch of the comment of the property of the p branch does not impact master branch WIT branching commands of Alt pranch -911 branch branchname -> git branch I git checkout -b branchtraine

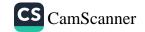


RULBROWN 1 Merging - when we do parallel development, when you complete the feature/ by Aves that code wil be merge in to mousterbranch. Creates Graphical history, (1) Fast-forward merger got enecurit master; get merge feature Master (C) (2) - & commis Head After merging these will be 4 commits total manting we do changes only in child branches we don't touch (the master branch so, there will be no conflict) After creating child branch we further we don't Note have to do further commit in marter branch. Three way merges Hend control Feeker (a) - a Changes happen in master and child branch parallely-so Merge commit happen when we do changes in mouster bosonce after cocation of to child bornik Total 6 commit (3 moster + 2 child + 1 more court)

Rebor Unit rebase Squashi Init rebabe > It is the process of moving or combining a sequence of commits to a new base commit. Rebusing replays changes from one line of work onto another in the order they were introduced. linear process of merging, each commit had only one farent. Creates a linear frace of commits, linear history that can be easily undestood. To avoid conflict, and went to follow ff-merge, To avoid multiple forent Need > (cm) (3m) Before rebuses Procesi Basiant master (IF) (C2F) Juplicede commit 06)8(45) Rebouse Step 1 (Cim) Lebour feating brinch on top of mouster branch Note + Run in feature branch discard History Rebun stipe of (CIM) (CIF) -Mery Feature branch to master (git merge feature)

0	vit devert _/_/_
Je J	Revest > is used to revest some changes. It is an Undo type (command: Useful to revest when our code is used by other dev culso. It does not delete any dock in this pricess instead it will create a new change with the opposite effect and thereby undo the specified commit. It is undo operation that offers a safe method of undoing changes useful for tracking bugs int revests records some new changes that are just opposite to previously made commits. Syntax - git revest committed // To revest commit with Specific Id. git revert -e committed // To edit commit may before reverting the commit

vilt Squash Squashing - combining multiple commits in to one can help to keep your got history clean & casy to read. Squashing retains all the changes you made but condenses them form into single commit. git rebase -i committed P-Pick git merge -- squash branch Name



Unit chessy Place - 1 git cherry-pick - is used to if you want to capply particular commit from one branch to another branch I cherry-pick is mainly used if you don't want to maye the whole branch and you want some of the commits wed Hat bugfix commit in all the vention branches.

Used when we accidentally make a commit in the word branch we have code version 1.0, 2.0, 3.0 (No vorcing) we observe some bug in this version & auso in all the provious version instead of making fixing buy In all vestion we can fix in one version & then, we cherry-PICK that fix in all yession git cherry-pick commtId = This will approve the commitId in the branch where you no this.