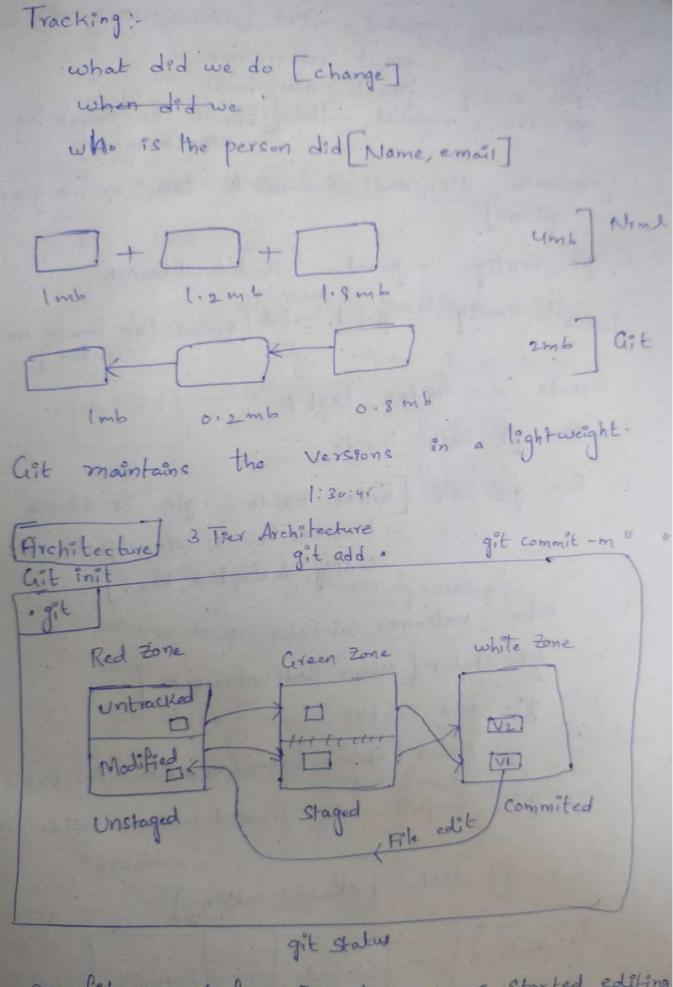
change the data in the Saitxt [manually by email. entering fore "welcome to speridian!" Run git status [ Shows modified Bai. txt] nin get add Saiotxt get status [ Circen: modified sai. txt] git commit -m "Added to speridien > Staged) energipt the mag with put modery the file [Manually by entering file] " welcome to speridian" git status [ Shows Red modified : Sai txt git add sa txt [ shows Green " git Statey [ Shows Green Modify the file again [ Manually by entering file] Hello Soil git Status | Shows one in staging Show one in modified Modefield Staged Commit

-- list [ Shows uses name, en. · git config --global git config --global user name "
git config --global user email "
git config --global --list [shows the names the we changed] . [User name, User email Should be Same as we givening github] · git Confeg --global init default Branch git config --global -- list [shows the branch we created] Create a folder test 1 . open git bash inside · Run git init [Enter inside git it shows branches, hooks, info, objects, refs, config, description, head] echo welcome sai txt git Status [ shows Red (untracked)] git add sairtxt git status [ Shows arean (new file: Sai-txt) git commit -m "created welcome inside git status [shows nothing] Sai. txt" Untracked Staged



one file moved from Red to green & Started editing it again without moving to white Zone if we sun git Status what Should it will show?

Fork

Pull request

Branching

Merging

Conflict

Client 2

Rebase

walkthrough Cathab, Bit bucky Egit.
Project

Verspons are maintains

both in Central & local

Servers.

Central: zed (SUN)

Central

Server

Central

Server

Peer Peer

· Machines maintaining versions only on Central Server.

· Internet lequired

Single point failure

· Everything is decorded only on Central Server

Cannot do decording of a Version.

Conclusion: We record only in one place in Centralised Vi

git add saitxt · get status [ areen] · get commet -m " last " SSH Setup Git hub Server Cit Client Client sends S.Sh Connection request. Server sends a random meg . client encrypt the msg with put key & Sends it back. . Server Lecrypt the msg using pub key are on authen succeds. -> ·ssh/id\_ xsa. pub Pub -> .ssh [id\_xsa

· Ssh-Keygen -t rea -c "email" Ly Should be gitt · esh -T git@github.com

Keys

Hi githubusername! Success authenticated.

109 9it 109 git log --oneline git 109 -- author authorname D Alias git config --global alias. 10 " log --oneline" git log -- oneline > -> Shows Sameoutput. Thow to delete alias git Config --global --unset alias.lo 1 Renaming git mu oldname newname git remote -v [ verify any semote connected to local or not ] ogit remote add origin [remote un] Ly To Connect to remote Repo from local. O git remote remove (uri)

1) git log reponame/branch name Logs from Kenno

Difference blu two Commits git diff old commit new commit Pushing yet time git push -u origin < remote branch next time git push Cloning a Repo git clone < us) Deloning only a particular branch in from lemi Repo. git clone -6 ( Branch name) < url 1 list all file in a directory git le-files -- directory < Directory ) o1: 03) n white liff filename diff oldnestaged file

Diff

git	dif	f	Cuntracyl		[modify]
A arts	100	git add .	Red		Red
	1:4:	f Stageo	Staged		alst help
	1	get commit	-mn	,	

git diff old commit 10 new commit 10

Remote us local = git diff origin/main

U. sta Commit

edi the Same file

Check Status [ File is in modified U. Staged]

Run git diff.

move the fole to Staging

Run git diff

more the file to commit

· Run git diff.

· Always rename the file through cli git commit -am " [only works for modified file not for untracked file] untrackel [modified] unstaged. 02:06:44 [Amend] 7 c1 c2 c3 c4 c5 In cs there is something wrong which is done by me If I want to hide it from others then we have to use "Amend" Command. Amound will replace the position of cs and it demones the existing ID and replace It with new ID Affer C1 C2 C3 C4 Amend will only work if the final commit is not pushed to lemote Repo.

· git log -P < filename >

echo hi > Sai

git add.

git commit -m" c1 "

echo hi am new 77 sai

git commit -- amend -am " c2 "

Note: After using amend command cliquill be replaced by c2ID.

Elgit config --global alias lo "log-oneline"

git reflog [It shows an logs including

amend also

git remote renove origin gitub

Initially at the time of creating semote sepo gitigo No

If our developers working on java project we need to Select gitignore as java-

without # taken into effect.

Inside gitignore for java project

\* · class [Compiled class file]

\*. log [log files]

\* . ctxt [Bluesfiles]

·mtj. tmp/[Mobile tools for java J2ME]

at gar

[Package files]

+ nat

\*, war

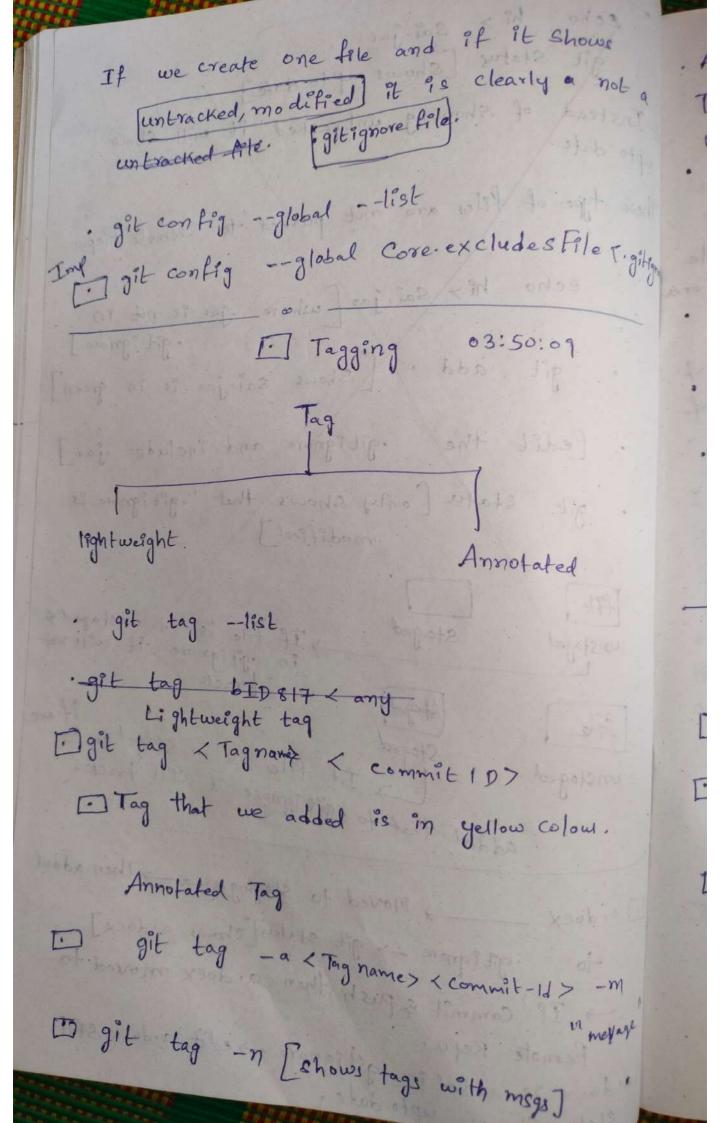
+. ear

4. Zip

t. tar. 92

+ . yar

· echo hi > sai jar git Status [shows up to date] Note: Instead of showing untracked it will show upto date These type of files are not pushed to semote Repor echo hir sai, jay where gar is not in git add . Shows sai jax is in green ·gitignore and include jar git states [only shows that ogitignore is modified ] 7 If file is in unstaged in in gitignore it will n Staged Stogel brack Pale > If file is in Staged & to Staged unstaged added that to git ignore it will track. . a. docx \_\_\_\_\_ Moved to Staging area -> Then adde to git grove -> git status [shows a docx] -> If Commit & push then a dock moved to Remote Repo. Dardocx is added in gitignore medit a docx still Status Shows up to date.



. Annotated tags store extra metadata such as Tagger name, email & date. Imp This is imp data fo Public release. · Leightweight tags are essentially bookmarks to Commit: They are just name & pointer to a Commit. . git de tag -d < tagname? [For deleting git Show < tagname > [ shows author, Date) . git push -- tags [push tags to remote repo] · git push --delete origin ¿Tagname > Ly Delete tag from remote. - Stashing 04:13:04 echo hi > test. txt git Status git add. 1 git commit -m "c," git log -- one line. 0 echo Add Some matter to testitxt. git status [ modified testitxt]

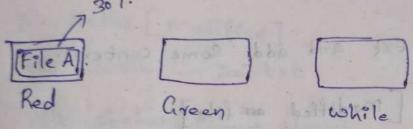
Highory)

The modified file I want to move it to Stashing area git states filename whatever the Content that is inside the file will be removed and moved to Stashing ara git Status [ Shows our branch is ahead of 1 Commit & instead of Showing modified test. bxt] git stach list

Stashing:

A Separate space given by git if we don't want to mark it as Commit and we don't want to move data from local to remote then we will go for Stashing.

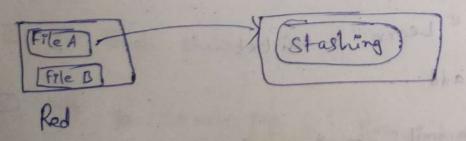
Stashing Area 30%.



If a file is not completed and we want to keep in separate area.

File A -> Half done.

After few days there is a Situation arise that you need to work with another file. only after fings hing file B then only come to FileA



In such cases git provides separate space & it removes file from (Red A) and move it to stashing area.

1 Create test. Ext Egit Status 5 git add. 1 git commit -m "c1" 1 git status 1) git log -- oneline open test-txt and add some content. D git status [modified assifile] Mow I want to move the file to Stashing are git Stash -- filename [After running this Command data is demoved from the file D git status [It doesn't tell that test-text ! echo " Learn "> sai.txt git add. git commit -m " ez " echo "Lete enjoy">>> sai.txt. get status [modified Sai, Ext]

D git commit -am "modified" 15 git Status 1) get log -- online [It doesn't show anything about test. txt] I git Stach list list Decho "practice">>> sai.txt 1 git Status [modified] 1 git Stash -- sai. txt D git statu [shows clean] 1 git stach list D git States Stash Show [last modified stash] 1 git Stach - Show -P D git Stach Show of Shows which file is on o Position. 1 git stash show 1 1 git to Stash pop 1 [ Brings back testitat to w from Stashing area git stash -- test. txt save " test. txt" git stach list [ shows o in test.txt 1 in sai.txt

File Stash position If we add File B Stash position File day dance s B O dept 2 to "saldone" on sa got stash show [ shows the last modified Stah] F) git Stath Clear [ Removes and douter from Stashing area] Do not follow. Note: "Cast stayh" will only work of the fole I work for donde hair a

o in show a prouse which the se in o

D Add abed ext to gitignore

Dgit status [abcd·Ext Vanish, modified gitignos

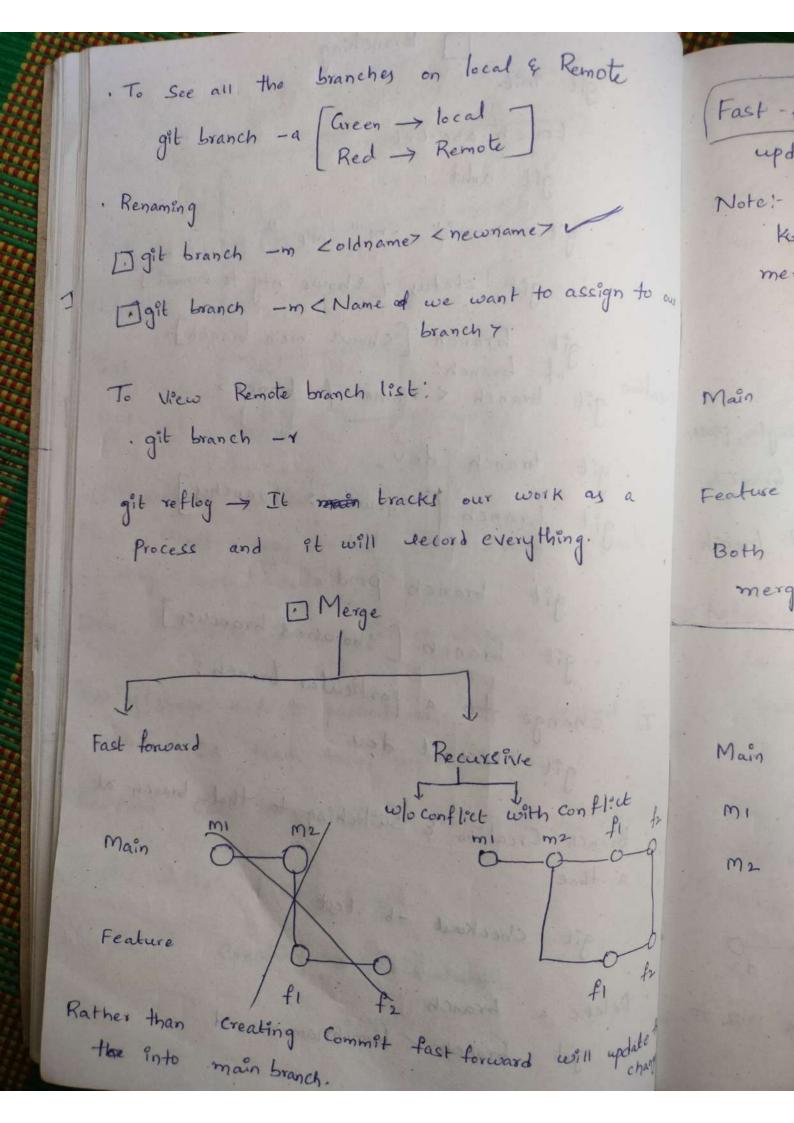
98th

Rebase Should not be done in group activity der main Main Ød1 d2 · git Checkout dev git log [ Shows mi m2 di d2] , git rebare main get log --oneline mi m2 m3 fa fa · git checkout main git merge dev. L Rebase: Remove the prattachment and reattach was to the updated at the end ad edge of branch. Cit Lab -> Used by Devops experts. Atlassan projects Comes with Bit Bucket, jira, Confluence - Us projects. · Puil Request in Cittub is called Merge Request

ace.

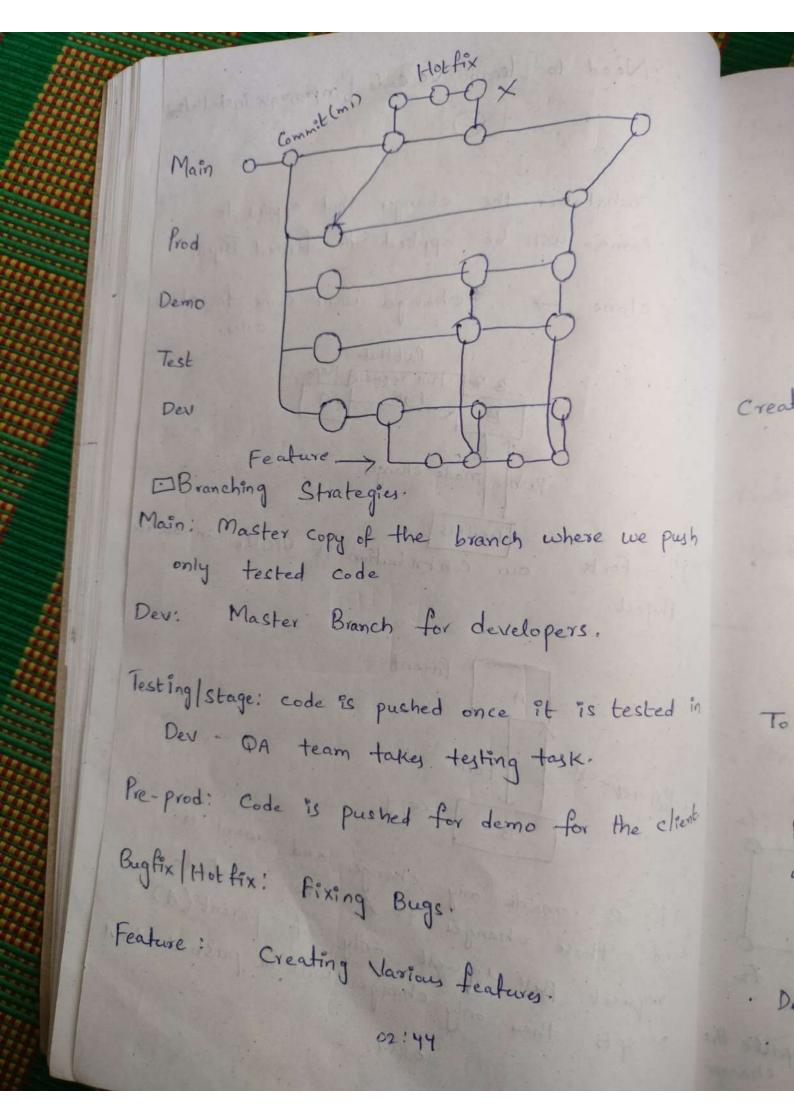
Merge with Conflict Main feature main feature milatet) fi filei) malatet) f3 (atxt) mx (a-txt) fr (Alex) · ait checkout man git merge feature Merge -Bringing together of two diff info into a single in Fast-forward Merge: No changes in parent brance Recursive: change in both parent, local brown D ReBase Main Dev d2 main Dev Kebase: changing the base of the branch from mst my Commit

Fast forward It's a technique to re-attach the update to the parent branch. Note: It is only used when parent boanch to has Known to us. no changes. who is asking us to merge. Recursive m3 my > New Commit Main Feature Both branches have different info and want to merge PRECURSINE Merge without Conflict Main Main Feature FI mI M2 Git checkout main . Git merge feature the رموس



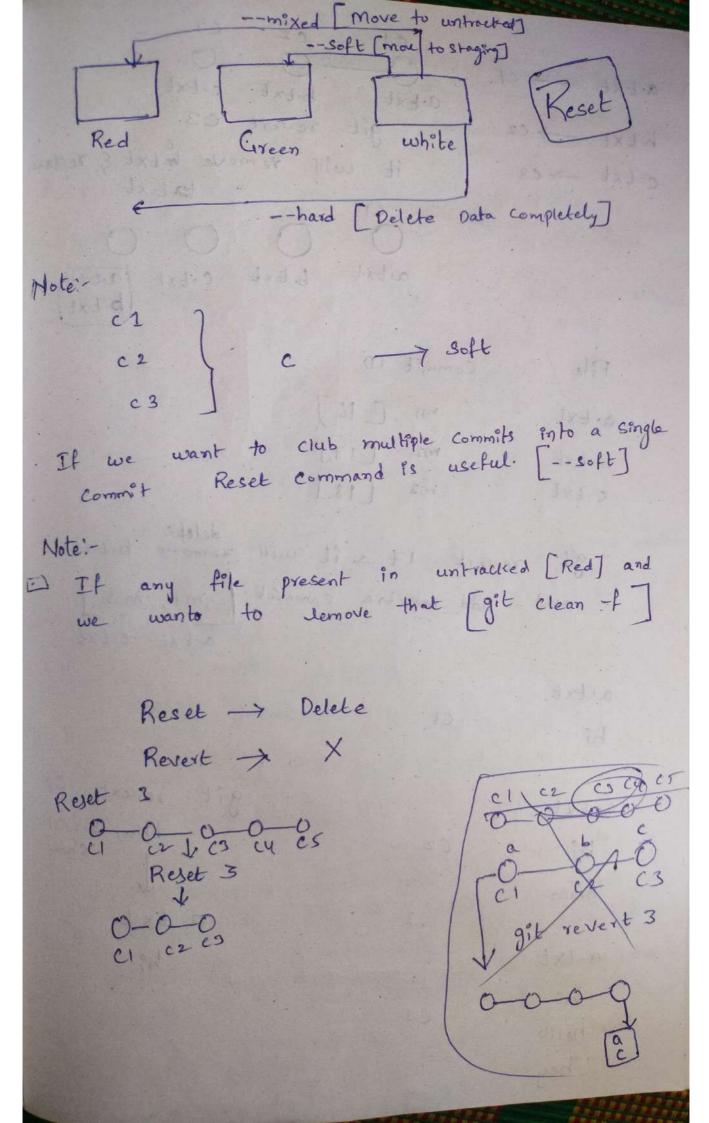
Fork: whatever the changes that applies to Same will be applied to forked Repos. Parent Fork & clone -> changes wont come to cloned B Roo Pull request, Repo Rush made changes Tocal vics Through Fork our contribution is lissible in another Project. Pall revuest Fork

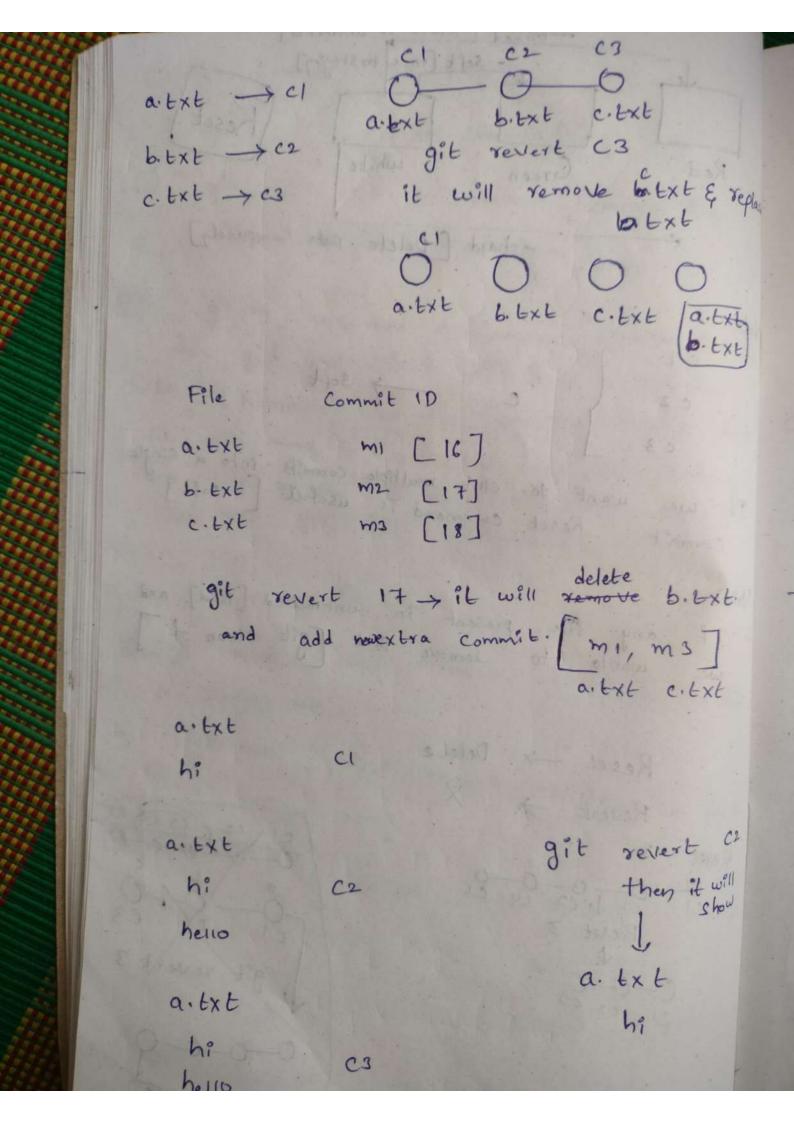
B copy Parent If B made any changes and want to Send those changes to A then need to request pull request only if parent (A) accepts then only changes will be pushed to A 01:14



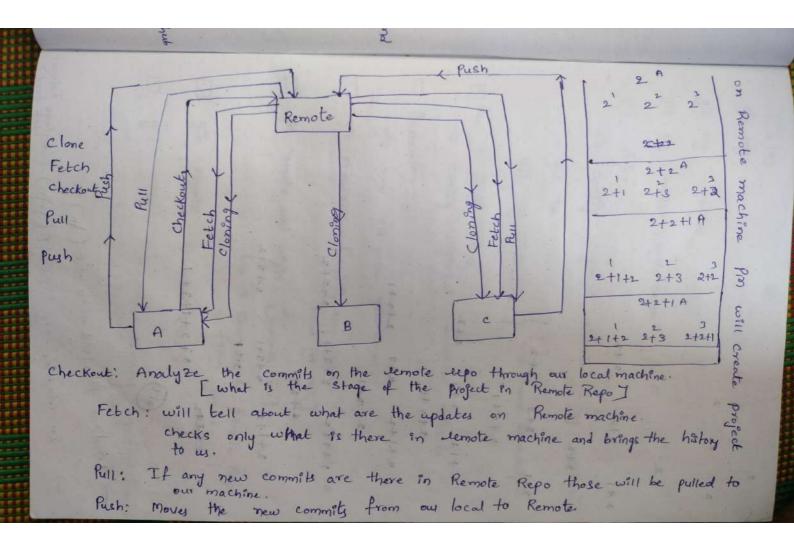
```
git init Branching
          touch abc. Lxt
           git add.
        git commit -m" m1 "
           get status [ shows ntg to commit]
creation git branch: (shows main branch)

creation git branch < name of branch>
     · git branch dev
     git branch [ shows 2 branches]
     . git branch prod
      · git branch [ shows 3 branches]
 To change to a pasticular branch:
        git checkout dev
   Branch Creation & Switching to that branch at
   a time
    · git checkout -b test
 Delete a branch
   git branch < branchname7 -d
```





□ git commit -am 11 ca 11 I RM Command git rm -f < filename > [Removes the file from git & file system. get ron -- cached < filename> [Remove the f from git but file is Still there in project] caching: - Removing the file from the records but It will move to untracked area after Cacheing and after mouing to untracking area we will add that file to gitignore file. I Rejet D git reset -- soft < commit-10> [Move the file to Staging area ] git reset -- mixed < commit - 10> [Move the fale to unstaged area] telepot mi Jad bada before 62:23 de ballamine Mixed Keset - Manipulate Version history Revert - To move to a previous change state



· Introduction . System Setup and Configuration. . Basics of git Architecture . Basic Commands of Cit local · Introduction GitHuL · Account Setup . SSH Introduction and Configuration. · Data movement from local to remote. · Fetch, Pull, push . cloning Log · Diff Commands . Alias , rename. · Clean = Untracked . Amend · RM = Tracked. . Tags . Reset = Manupulate Version . Stash History. · Revert = To move to a · ignore Previous change state. · checkout . Fork · Pull request