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## Yesterday Topics

1. What is the need of VCS?
2. How many types of VCS?

- a. LVCS
- b. CVCS

eg: SVN

- c. DVCS

eg: GitHub,bitbucket,gitlab,.....

3. Architecture of git

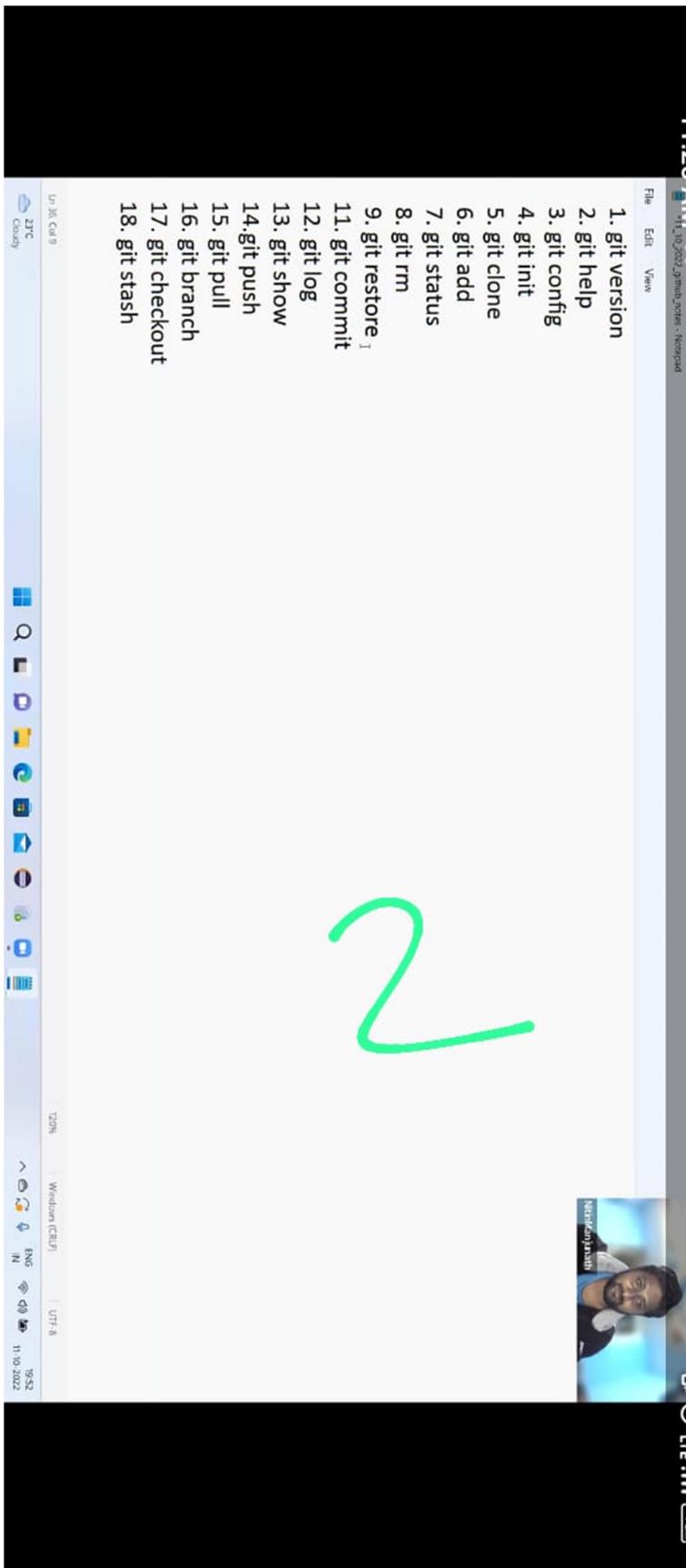
- a. working area => developer workspace(source code)
- b. Stage area => Before adding the code to the localrepository, we keep the code in stage area
- c. Local repository => Before pushing the code to remote repository, we keep the code in "Local repository".

4. What is git and github?

git -> It is a client tool where the user will enter url,username and password of github repository.  
github-> It is a server where the host of repositories/projects is maintained.

1. git version  
2. git help  
3. git config  
4. git init  
5. git clone  
6. git add  
7. git status  
8. git rm  
9. git restore<sup>1</sup>  
11. git commit  
12. git log  
13. git show  
14. git push  
15. git pull  
16. git branch  
17. git checkout  
18. git stash

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Note: git merge, git rebase

1. git version

This command is used to check the version of git

syntax: git version or git --version

```
nitin@DESKTOP-1N5U4UJ MINGW64 ~
$ git version
git version 2.37.0.windows.1

nitin@DESKTOP-1N5U4UJ MINGW64 ~
$ git --version
git version 2.37.0.windows.1
```

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```
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nitin@DESKTOP-1N5U4UJ MINGW64 ~  
$ git --version  
git version 2.37.0.windows.1
```

2. git help

If we want to see the list of commands then we can use `git help`

Note: This command is useful to get the documentation of any command  
eg: git help <command-name>

### 3. git config

It is used when the git software is used for the first time.

The command will set the developer identity like name,emailid,...

This configuration information will be used by git software for every push operation encountered.

```
> git config --list /
```

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```
//to set the username and email
>git config --global user.name "Nitin"
>git config --global user.email "javabynitin2022@gmail.com"

global => it indicates the user can work with git commands from different drives of computer.

Note: git config --list --show-origin //display the location of git configuration holded by git software
```

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**Important operations associated with git**

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```
git init
```

=> normally a folder will be created in the developers works place and inside the folder the source code would be placed

=> normally this is the first command which we execute to set up the git for operations like clone,push,pull,....

=> This command internally creates one folder called .git

=> git is used by git software to identify the folder which should participate in pushing to "local" and "remote" repositories.

syntax : git init

Note: To change the directory use the following command cd .....

To check in which directory we are present we use pwd command

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To check in which directory we are currently present we use pwd command

git status

> This command is used to check the status of the working directory

> git status

D:\git\session\Workspace-1(master)

|=> Demo.java

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

Demo.java

nothing added to commit but untracked files present (use "git add" to track)

git status normally will give outputs in the following ways

a. untracked files

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| => Demo.java

On branch master  
No commits yet  
Untracked files:  
(use "git add <file>"... to include in what will be committed)

Demo.java

nothing added to commit but untracked files present (use "git add" to track)

git status normally will give outputs in the following ways

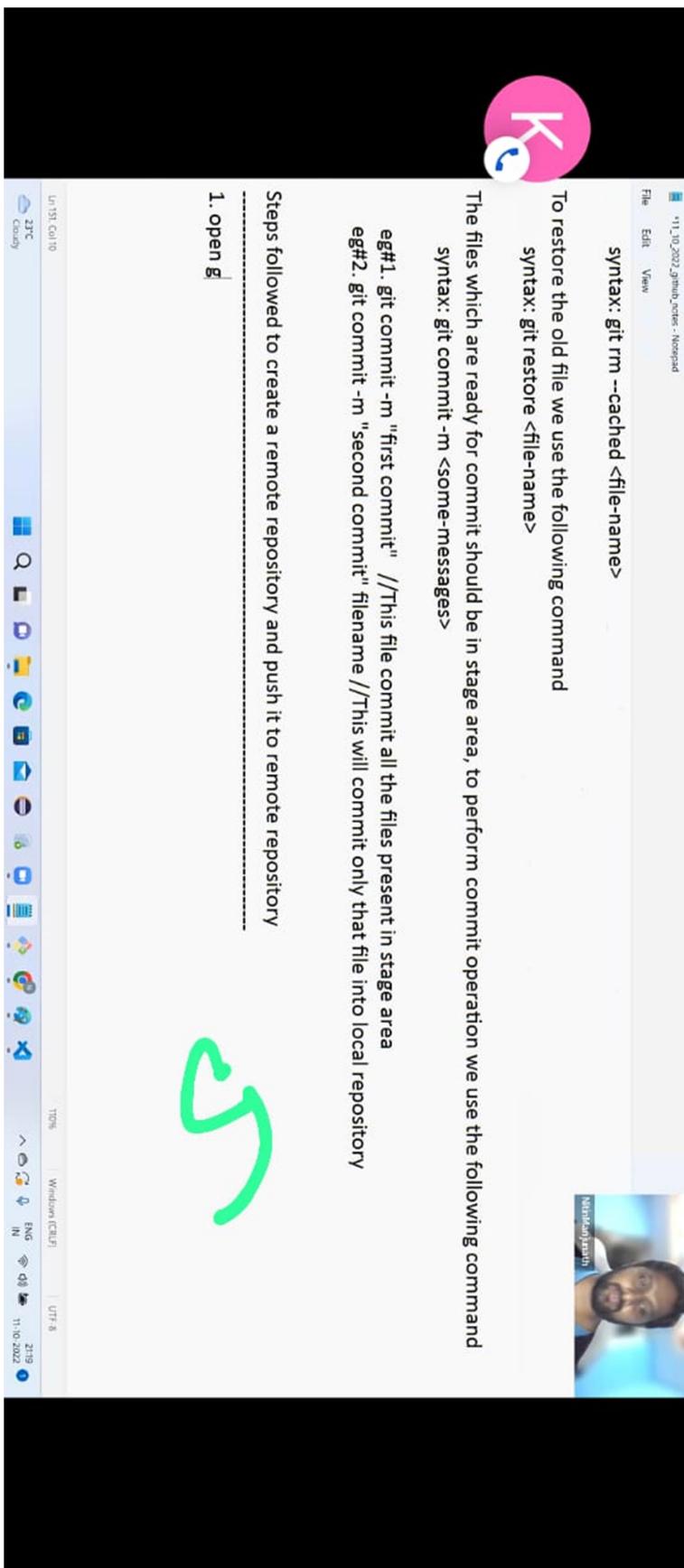
- a. untracked files(red color) => it means the files are present still in working area and these files can't be committed to "local repository" nor to "remote repository"
- b. tracked files(green color) => it means the files are moved from working area to stage area so these files can be committed to "local repository" and to "remote repository".

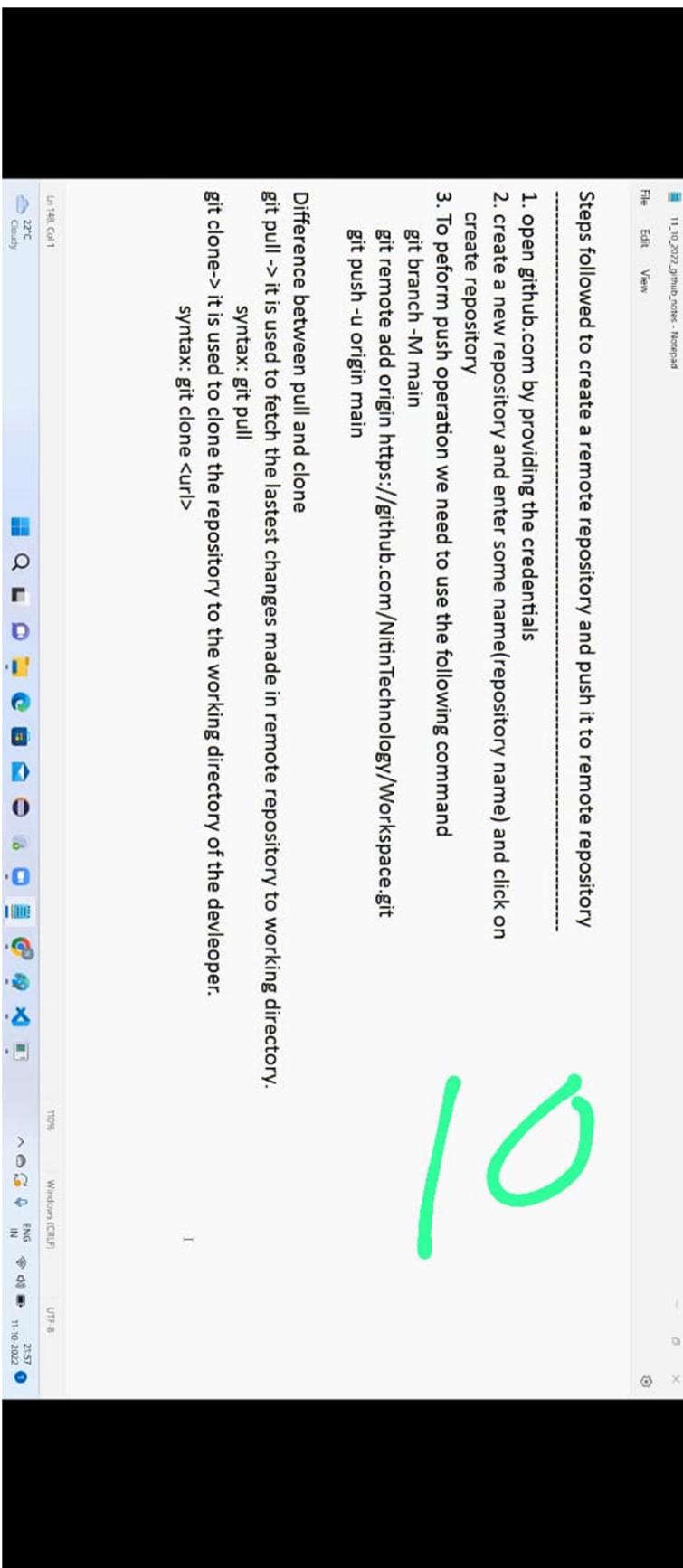


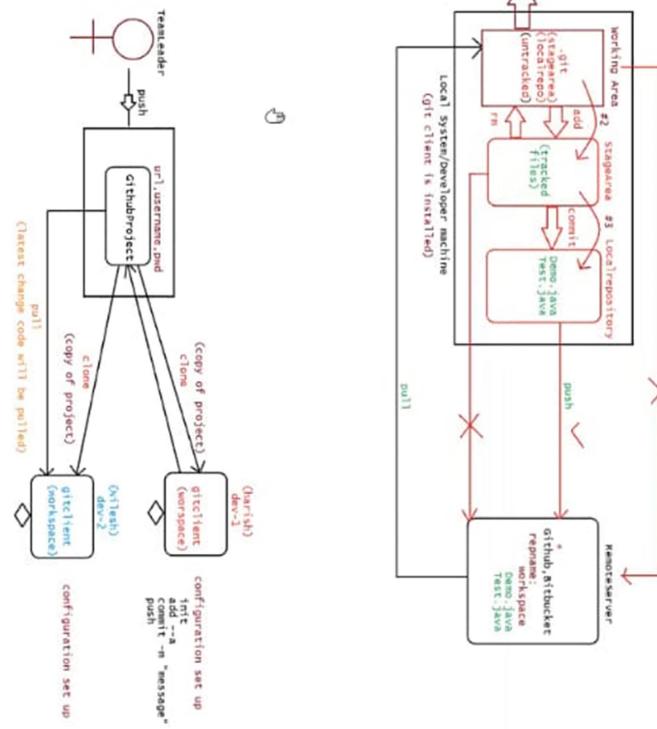
To send the code from workspace to stage are we use the following command

It is also possible to unstage the files from staged area to workspace, using the following command

A vertical column of small icons representing various applications and system functions, typical of a Windows Start Menu or taskbar.







```
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init.defaultbranch=master  
  
//to set the username and email  
> git config --global user.name "Nitin"  
> git config --global user.email "javabynitin2022@gmail.com"  
  
global => it indicates the user can work with git commands from different drives of computer.  
  
Note: git config -list --show-origin //display the location of git commands holded by git software
```

Important operations associated with git

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=====
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git init

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