GIT – lab 1

GIT IS SOFTWARE WHICH CREATES LOCAL VERSIONS (VERSION IN YOUR LAPTOP /SYSTEM)

https://git-scm.com/download/win
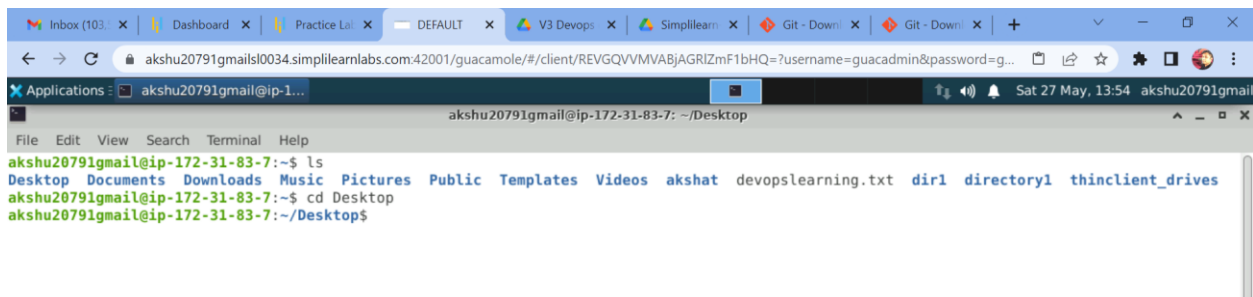
https://git-scm.com/download/mac

Lab:

Create a folder with name : project
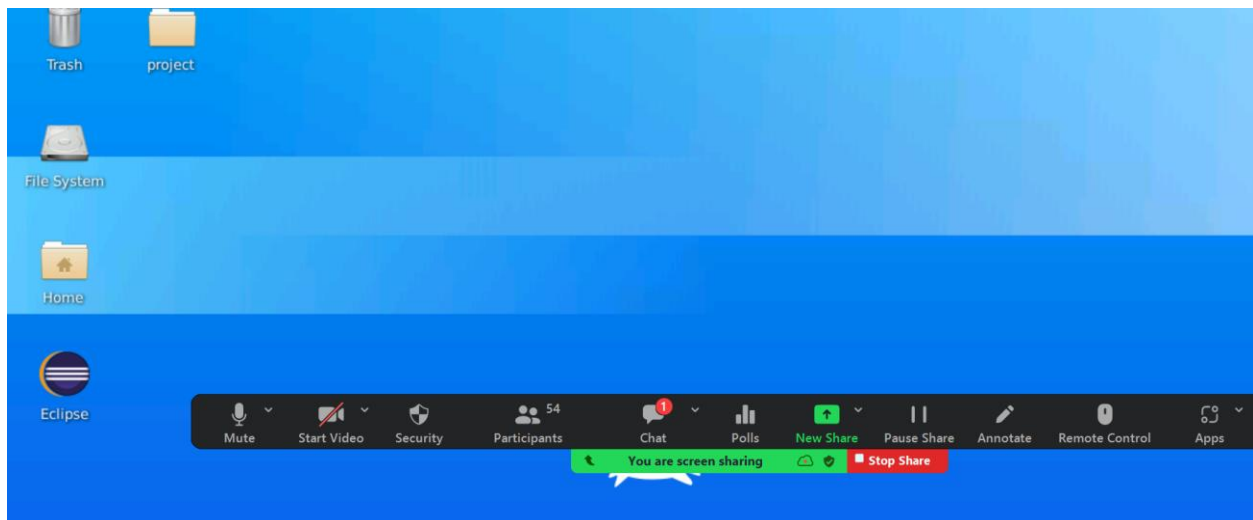
Open the terminal

ls

cd Desktop

```
File   Edit   View   Search   Terminal   Help
akshu20791gmail@ip-172-31-83-7:~/Desktop$ ls
eclipse.desktop   project
akshu20791gmail@ip-172-31-83-7:~/Desktop$ cd project
```

vi index.html

```
File   Edit   View   Search   Terminal   Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ vi index.html
```

```
File   Edit   View   Search   Terminal   Help
hello world
~
~
~
~
~
~
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~
~
~
-- INSERT --
```

git init   # it will start the git in the project directory we are working

```
File   Edit   View   Search   Terminal   Help
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git init
```

> I want to start the git in the project folder

Initialize the git
↓
Start

The above command will start the git

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:    git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:    git branch -m <name>
Initialized empty Git repository in /home/akshu20791gmail/Desktop/project/.git/
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```

git status

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```
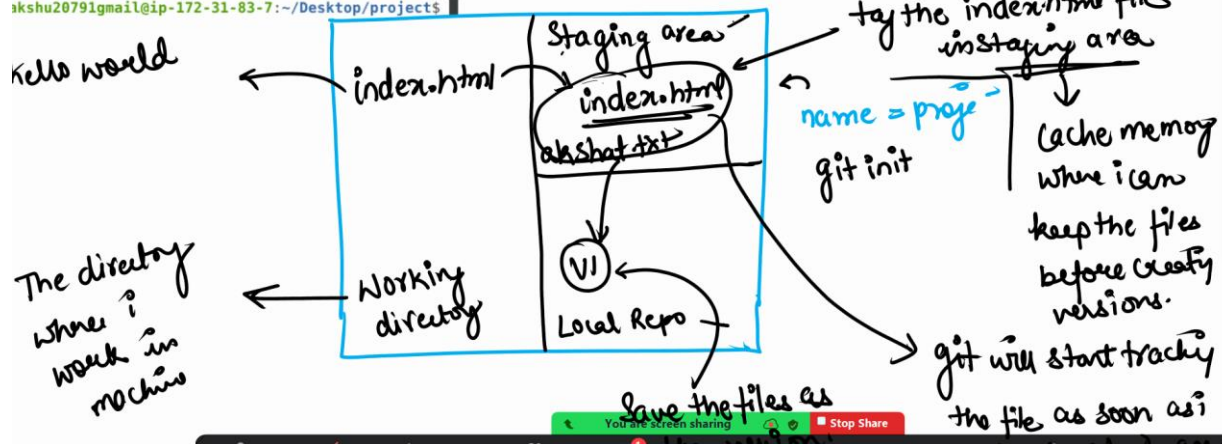
Show the Status of the project directory

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ cat index.html
hello world
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```


hello world

The directory where ? work in machine

Working directory

Staging area
index.html
akshat.txt

VI

Local Repo

index.html

save the files as

tag the index.html file in staging area

name = proje
git init

Cache memory where i can keep the files before creaty versions.

git will start tracking the file as soon as i

You are screen sharing   ■ Stop Share

The file index.html is not tracked yet. we need to put it to staging area.

git add .

(or use git add filename)

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git add .█
```

all the files in the working directory would be moved to the staging area.

With git status you will see that the file is in staging area (also it is market with green color)

To move back your back your file from staging area to working directory (WD)

file is in staging area

git remove the file from cache memory (staging area)

to move back file from staging area to working directory (WD)

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git rm --cached index.html█
```

move back your file from staging area to working directory

###

Your file will again be moved back to working directory

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ █
```

again lets put the file in staging area

git add .

```
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git add .
akshu20791gmail@ip-172-31-83-7:~/Desktop/project$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   index.html

akshu20791gmail@ip-172-31-83-7:~/Desktop/project$
```