Session-1

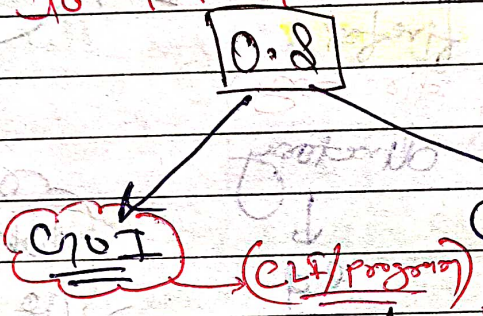
* Why we use Operating System?

→ Only one use case to run our program.

* Redhat → 8 → Linux → 0.8

* User → (root) Admin (with unlimited power)

* We can interact with any of two ways-

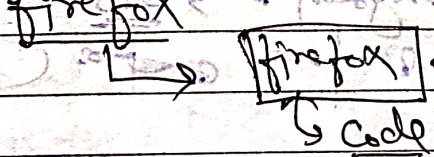


→ We are using a mouse, clicking in any application internally behind the scene they are using some program.

→ Program → cmd (Interpal program)

→ If you know the program name, i.e Cmd.

* Where we write the code of programming file.



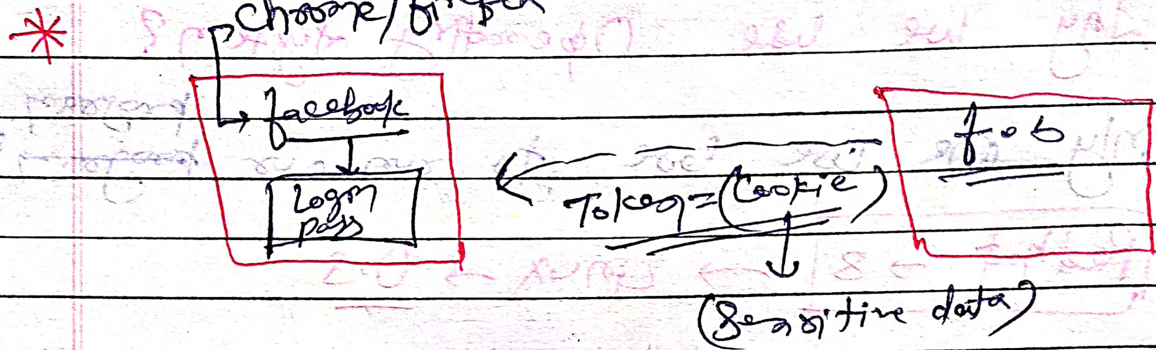

```
# firefox
# which firefox        (tell where firefox program file location)
/usr/bin/firefox       → Path
# gedit /usr/bin/firefox   (we can see the firefox code)
```

* Why the Linux is open source?

→ Any software program available in Linux we can see the code.

CLI : Black Screen

Left Ctrl + Shift + C → Copy
left ↓
V → paste



gedit /usr/bin/firefox
cd $HOME/.mozilla/ → Code of Mozilla
ls
cd firefox/
(change directory)

* folder → directory
↓ ↓
GUI → double click   cd

What ever we do in browser everything is there

ls
cd 35pksoow.default/
ls (we can see the cookies)
→ now we can see the cookies.
date
cal
* we use the cmd/program → user
who create own cmd → author (Creator)
cal 2020
cal 10 2019
date
→ How we know where we want to add year month
cal 9 1752
→ 11 days is missing in Sept month.
echo hi
hi

(print Output)

(speak Output)

echo hello

espeak-ng (and Output will speak)

→ go to speaker & output we listen.

espeak-ng [hello

date | espeak-ng

① → Pipeline. → pipe symbol

→ Convert Text to speak → TTS.

Session-2

* Before install any O.S we need → RAM, CPU, HD.

Red hat Linux

O.S → Program run

watch date (date run per 2 sec change)

watch -n 1 date (not run same time)

cal

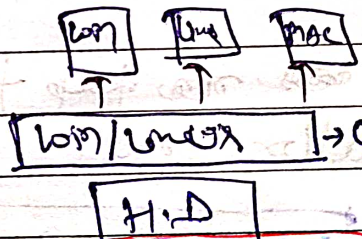
→ we want cal keep on running & other will work.

Platform to where install O.S.

RAM / CPU / HD

* ①

②



Bare-Metal → virtualization

dual (dual booting is also) → (2 os on hardware)

② Cloud Computing.

④ Docker (Containerization)