

0:42

File Edit View

Sir , Do Processor have memory? How can it can recognize repeated command take from cache?

Cache data would be recognized by the software(os or c/java)

can you please explain semiconductor thing again .. that was bit confusing
Semiconductor -> it is technology made of diodes which can understand
only 0's and 1's.

2

Sir, why we are writing the program on ram if by the end we have to save on HDD...?

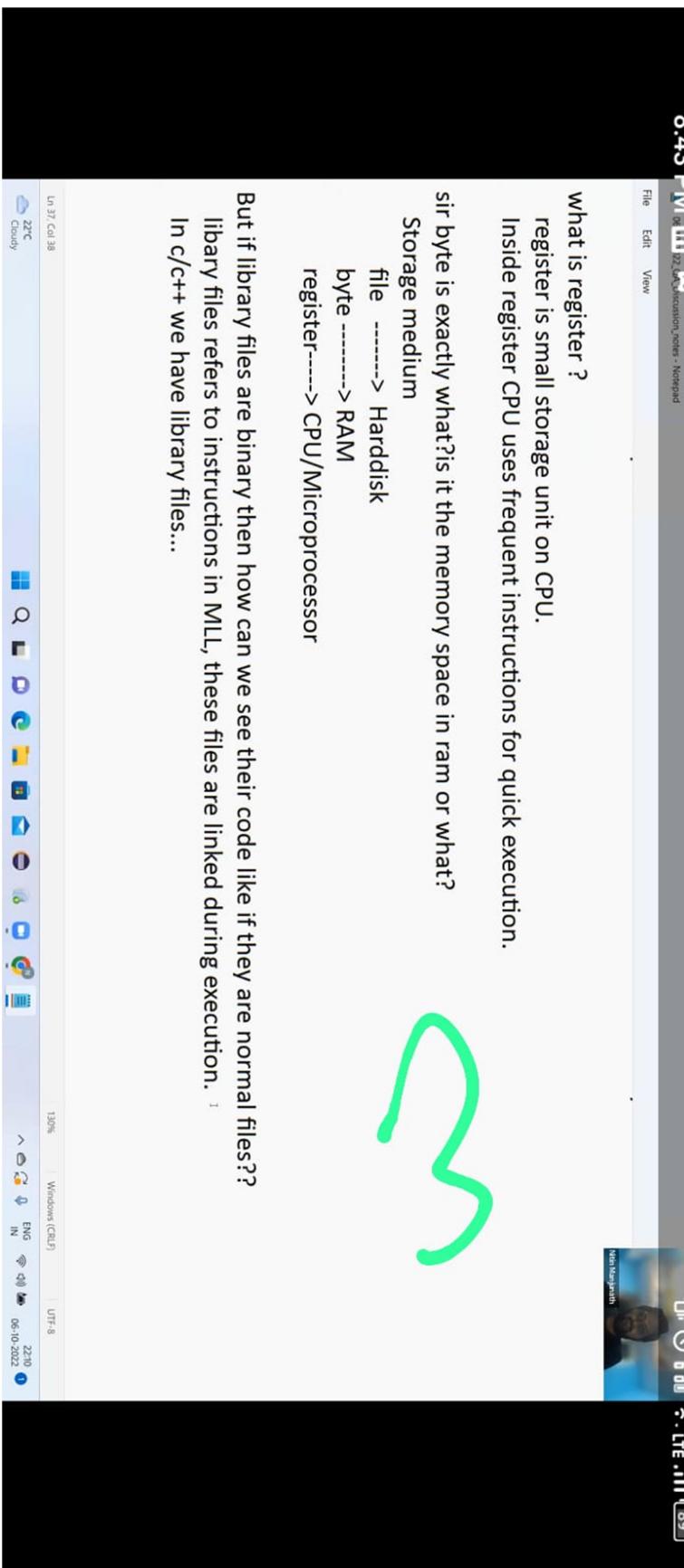
RAM -> volatile data and it is fast in execution.

HDD -> nonvolatile date and it is slow in execution.

sir once recap .objfile and .exe file

.obj file -> It is incomplete file with instructions in MLL only
.exe file -> It is a complete file with instructions in MLL which can be exec





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library files refers to instructions in MLL, these files are linked during execution.

In c/c++ we have library files...

when file is loaded from hdd to ram it gets stored in byte?

Yes, that process of loading is taken care by OS(Operating System), becoz CPU understand only MLL.

Roadmap for learning JAVA

JAVA -> JSE(CoreJava)

JEE(AdvancedJAVA)

prerequisite-> HTML,CSS,JS(basics)

DataBas -> MySQL,Oracle

4

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DataBase -> MySQL, Oracle

if i open one application every day but every my laptop was on and off so that time processor what will use cache or RAM to open application?

Switched Off -> Os shutting down(memory will be cleaned)

Logged off/sleep mode-> Os is not shutting down(memory won't be cleaned)

data will be there on ram as well as on cache.

does compiler replaced assembler completely?

no



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data will be there on ram as well as on cache.

does compiler replaced assembler completely?

no

now we r using only compiler right instead of assembler?

yes because we use HLL to write instructions to CPU.

is linker available in java also?

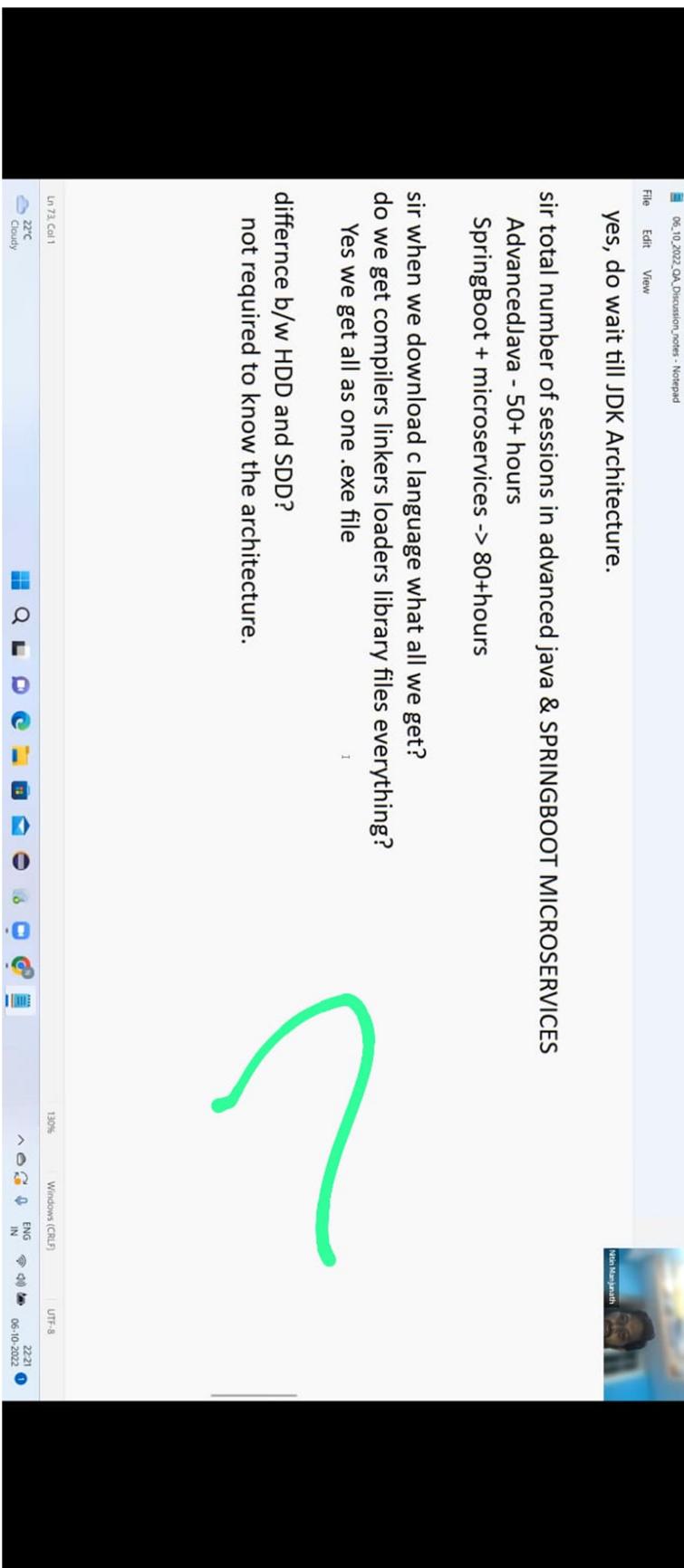
yes, do wait till JDK Architecture.

6

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difference b/w HDD and SSD?
not required to know the architecture.

i was just curious about cache memory...is it present in MP or
its separate memory...its not related to our course i just curious about that?
CacheMemory avaialbe inside cpu only for faster execution and its size is in MB(very limited)

how can you run without program without saving then slow when we save and run?
not possible, we need to first save only then OS will load that file and keeps it in RAM for execution.
¹

sir how exactly will ALL look like ?
ADD AX,BX
mov CX,#5



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mov CX,#5

I'm using jdk19 and latest version eclipse but I'm creating java project and run hi say error. Then i connect my dashboard support and Mam also trying 4 time but not solved my problem she's last time say delete your jdk19 and eclipse and install again and I'm same step follow but my problems are not resolved.

JDK19 if u r using , then eclipse should support jdk19 version.

latest eclipse would support only jdk17 version.

Best LTS(Latest stable version) use JDK8 or JDK11.

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the .obj files executable(.exe files)

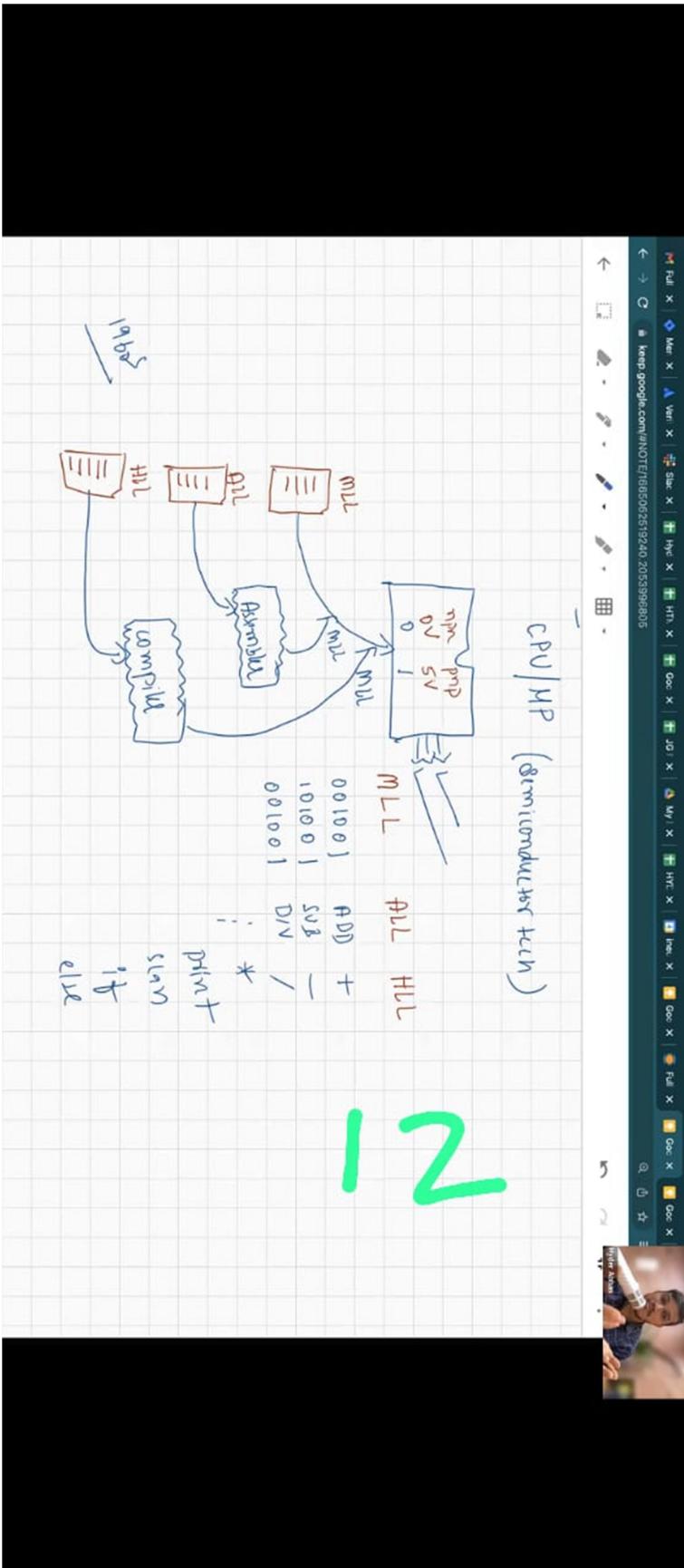
loader-> It is a software which loads our .exe files into RAM for execution(CPU).

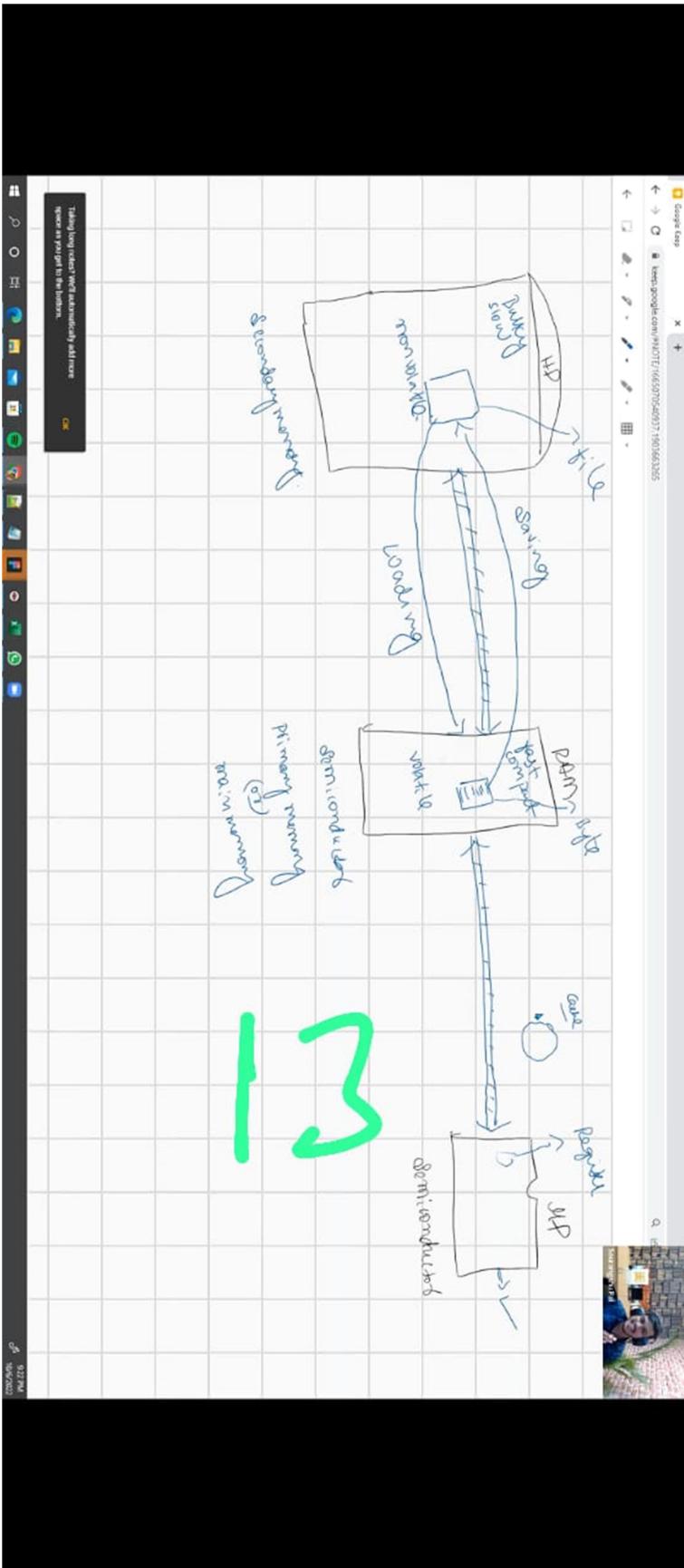
Sir data is transferred from RAM to Processor through BUS but where does the change takes place from (byte- MLL) as processor understands only MLL

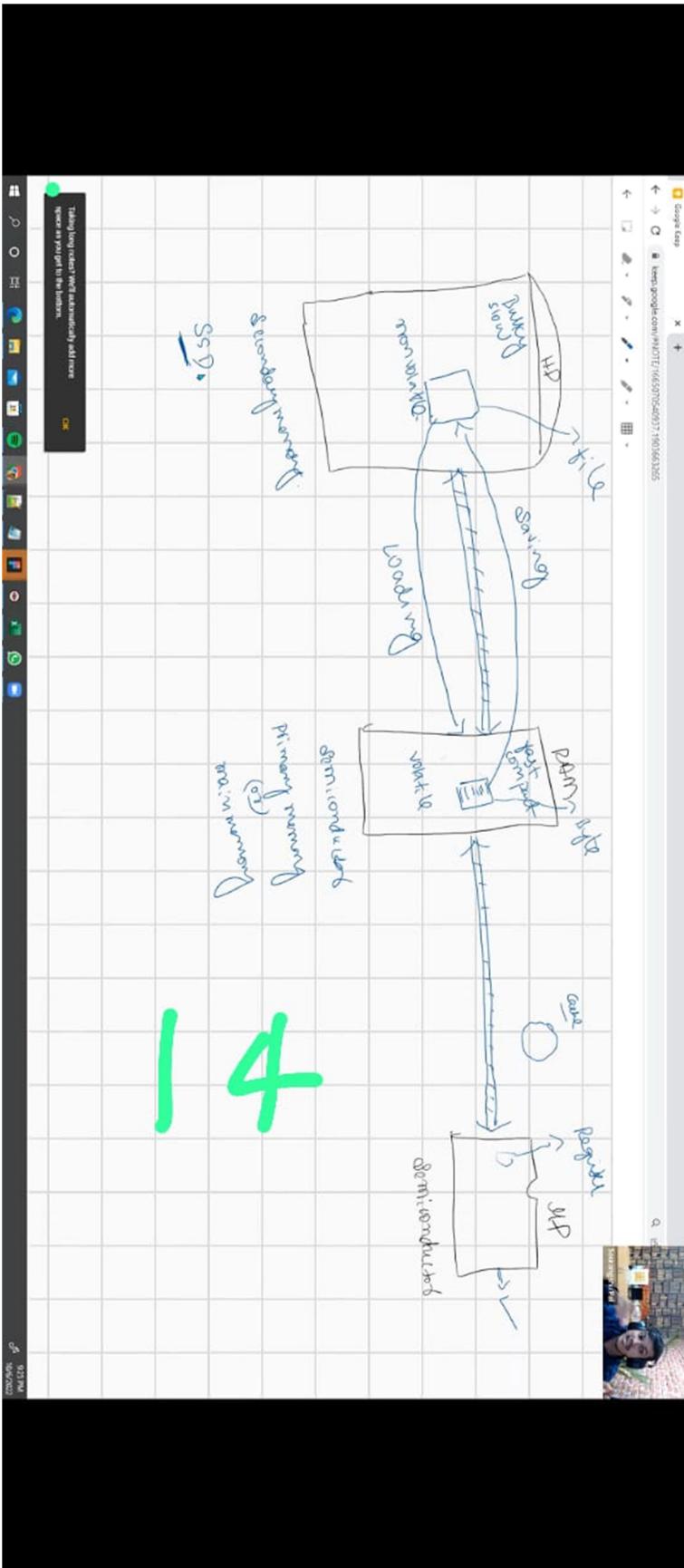
Harddisk -> files are present

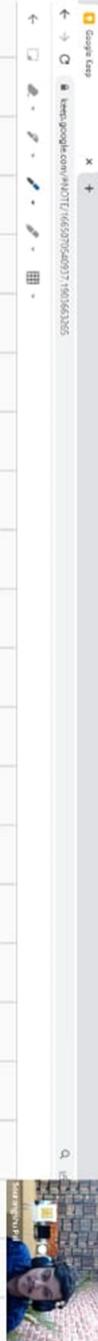
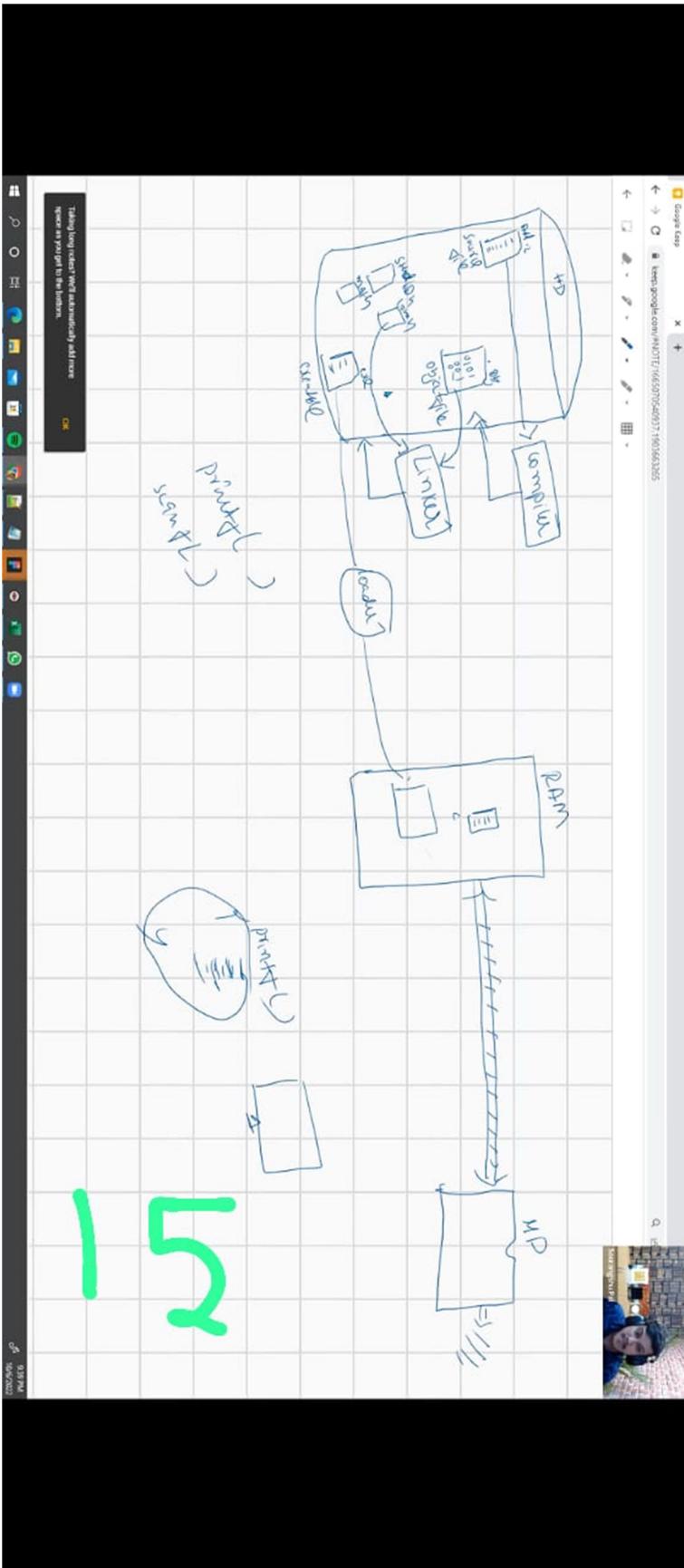
User will say to run one video file, now os will come into picture for loading the files from harddisk to RAM for execution.

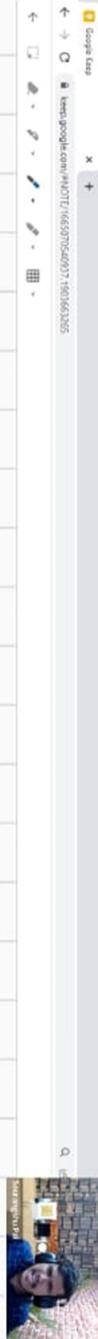
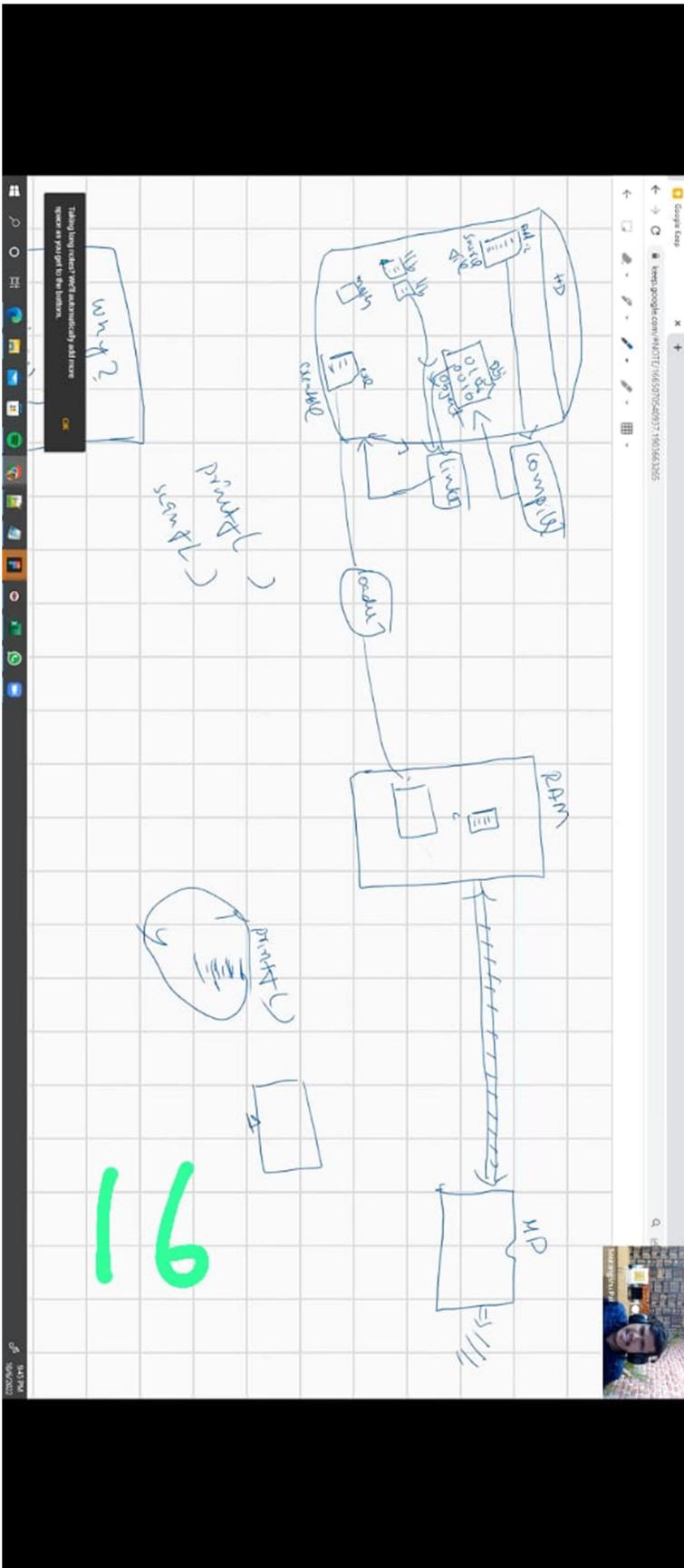
OS will convert the give file into .exe file during loading and it will be sent in the bus for execution(CPU).











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what is difference between MLL and byte code?
MLL -> contains instructions in 0's and 1's
Bytecode -> It contains instructions neither in HLL nor in MLL

what is architectural neutral?
Write code once in any platform and run the code in any other platform without worrying its architecture.
Architectural neutral -> Write Once Run Anywhere(WORA)

what is jit?
JIT -> Just In Time Compiler(reference to JDK Architecture)

jvm comes between the platform to make independent...where c sticks...
on which level, briefly explain please

17

jvm comes between the platform to make independent...where c stuck...
on which level. briefly explain please
C language -----> compiler-----> .obj file(contains instructions in MLL)
JavaLanguage---> JavaCompiler -->.classfile(contains instruction neither in MLL nor in HLL)

.obj file -> windows(un)
-> linux(no output)
-> mac(no output)

Architectural Neutral/Platform independence/WORA
.classfile -> JVM(windows)
-> JVM(linux)
-> JVM(mac)

can u explain about the how the jvm works?

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Manali cloudy

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.classfile -> JVM(windows)  
-> JVM(linux)  
-> JVM(mac)
```

can u explain about the how the jvm works?

.class file(byte code) -> JVM (reads bytecode in interpretation style)

sir jvm is platform dependent ?
yes jvm is platform dependent.

sir wht is obj oriented lang?

Obj oriented language means writing the code using the principles of OOPS.
eg: inheritance, polymorphism, abstraction,....

If we compiled our app in jdk18 and uploaded it in the cloud. Will it cause problems in the future after it is not supported?

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

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sir wht is obj oriented lang?

Obj oriented language means writing the code using the principles of OOPS.
e.g: inheritance,polymorphism,abstraction,...

Q>

If we compiled our app in jdk18 and uploaded it in the cloud. Will it cause problems in the future after it is not supported?

No probs becoz java provides backward compatibility.

Q> jvm contains java compiler or java compiler is separate?

JDK => Compiler + JRE

|=> JVM + library tools

Developers(JDK) -> write the code ,test the code and run the code.

End user(JRE)
-> just run the code

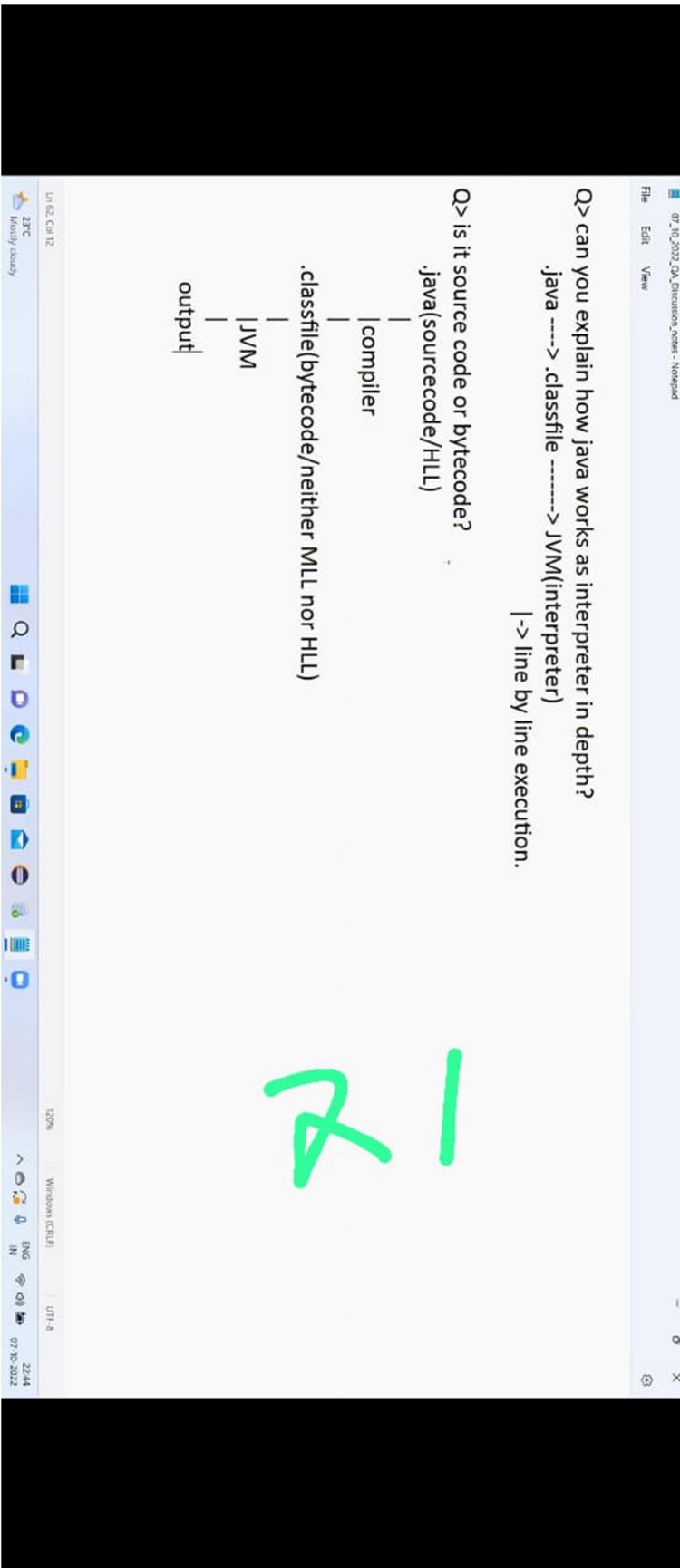
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Mumbai, India



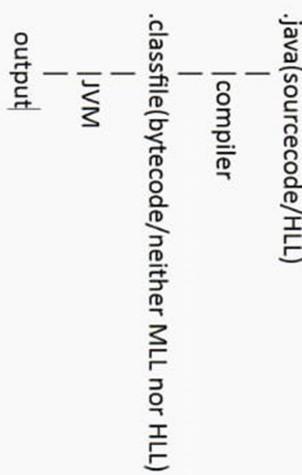
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Q



Q> is it source code or bytecode?



Q> can you explain how java works as interpreter in depth?



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java -version

Q> Sir Java LTS version automatically updates or we need to uninstall the version and install the latest version of LTS?

uninstall and install(suggested to just install jdk11(LTS))

Q> Can we see file containing Machine Level Code Sir like how u showed for Byte Code?

yes possible, but not in java(becoz output file is not generated in java)

Q> sir what is jar?

jar -> collection of .class files

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