yes my que is why it is incompleted after compling process
    y becoz of time complexity.

can u discus assemble and compile again
    Assembler -> It is a software which is used to convert ALL to MLL
    Compiler   -> It is a software which is used to convert HLL(symbols) to MLL

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.

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 .exefile
     .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 exected by CPU.

what is register ?
    register is small storage unit on CPU.
    Inside register CPU uses frequent instructions for quick execution.

sir byte is exactly what?is it the memory space in ram or what?
    Storage medium
            file   --------> Harddisk
            byte --------> RAM
            register-----> CPU/Microprocessor

But if library files are binary then how can we see their code like if they are normal files??
    libary 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)
                           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

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.

sir total number of sessions in advanced java & SPRINGBOOT MICROSERVICES
AdvancedJava - 50+ hours
SpringBoot + microservices -> 80+hours

sir when we download c language what all we get?
do we get compilers linkers loaders library files everything?
Yes we get all as one .exe file

differnce b/w HDD and SDD?
not required to know the architecture.

i was just curious about cache memory...is it precent 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.

sir how exactly will ALL look like ?
ADD AX,BX
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.

Difference b/w linker and loader?

linker-> it is a software which is use to link .obj files with library file and it also makes
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 pitcure 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).