WODULE - D LOGIC BUTIPING what is LOUIC? collections of well-defined activities to me Performed to solve the problem. Example: Adding Two Numbers O get a 2 numbres 3 use Addition operator (+) (3) save the result (4) point the rusult => Logic can be written in many ways like, @ Flow chart 1 Pseudo lode BUT? How Kompoter need to solve by this lugic LOUIC -> PROGRAM (CODE) ( Java, C, C++) etc ... TECH MODULE - 1 Architecture Run-Time Environment compile Time Envisor Stepl: Java Source (. Java) Bytecoder clocal or Java Compiler step 2 network) Java By code

Hardware

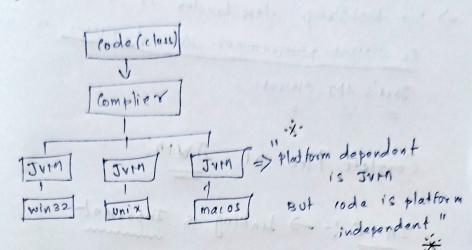
( class)

Steps: I LUCOM Step 1: Jara Source code source code -> Bycode code (ojava) ( oclass) step 3 !-"CLASS LOADER" -> Reads both "User defined" & "library classes" into memory for Step H: "BYTE(ODE" resulfier -> validate all bytecodes ( DVE to DO NOT TOLATITE JAVA SECURITY RESTRACTIONS) JVM reads: bytecodes & translates into machine Steps: 1801; lade for exection. i.e -> while respection, the program will interact to fee 08 & hardware o 5 Phases EDIT -> Compile. 1 LOADING -> Verify -> EXECUTE (1) 1 code editor > write rode Java -> · elass (Bycode) class loader -> Bycode read's into memory security violation (4) JUM will handle it to'os ejHadware

## Virtual Machine

output of the "Compiler" is byleredo

Bylecodes are executed by Juin,



of Juta will differ to differ for Platform.

6) platform - specifico > Interpreted code rous -> slow compare to execution

Execution -> Fast (compliles) Interpreted -> slow (Byte, codes)

The Adaptive Optimizer

) Another type of execution engine >> vistual machine -> Starts Anterpret bytecodes.

.) But it any heavily used leade areas ar optimized by Junk. so Af the fime

Adaphre Optimizer used's

