(10 seconds) Add. C = Dev =) Source Code Dowback => sec to notive Add. ede = 09 => Native/Exe/Op/Bisasy. c/c++ not used in Industry due to its platform dependent where the compiles converted .exe file is understood by TPlatom dependency. <u>eust</u> only one 03 that is of + compile cost of selling the developer. Add eve in exeases Add. javat Der = Sousce Code Add. class) JRE

Platform

Independent WORA Add, dass = Byte code Add, exe (OS -) Notive code Write Once Run Any where-WORA concept. MAC OS win os Files Photos Picture ·jpeg e Interpretos. ; Tung Music Physis orop3 € Pages Mored .doc E -class Java / Bytton edgy are preferred due to its platform independence

08/11

Gangh Leesthi

Dramback: Javal Python: Slow in execution-Since not running an the OS but on interpretors that act as OS. clarguage is used in Device specific operations. Java Code execution: > Janac z java > java 7 After compilation of source code the name of byte code will be equal to name of class written in source code. & Step Process!" soc code :: file, java => Interpre javac-exe Byte rode!: . class > JVN (java. ede). The number & byte codes genererated after compilation of source codo will be equal to number of classes written in source code. c: | Program Files | JAVA | JOK 17 10 Seconds ATIET /11b 1 pis A. dass · java - Class e re B. class String String jarac C. class System System Jare public class Fring ? public closs system 5 The narrows of source code and byte ado should be sarrow if a dagg is declared as public into source code to

avoid nonfusion in debugging due to name exross. Multiple classes can be written in the source code but only one class among should be public provided the homog al Bourrecode & public class name are source. civil Enginees -> Bluepsint Liskitcher, booking. logial conclusion. Physical -> Mason V 6 used by the ownex-Software developer -> class L> variables, methods & members. logical construction Physical -> JUM (interpretes) Trexecutes RAM Types of variables: static, non-static, local field = variable, States - values. Working of JUN: Physical Construction ⇒ os loads JUM to Stock > JVM calls inhuit class Classland ⇒ class Loader → creates 'static context' in Heap → creates Static variables and loads definitions of Static method > latels the address of static context with classiname -> will give the address to JVM and exits

Why mouse () must always be station? JUN in order to Start the program it will go in search of main() in static context. Why local variables of one method cannot be a rossed by another method? effocal variables: directly Static vorsiables: directly :: classnassor (if there is a conflict) Static methods: directly, closerarose. non-statte variables: non-state methods:: Callee method cound call the variable of caller softhod. Reason: LIFO of stack Pointer Error: Variable Not found. Caller method cambot call the variable of callee method. Reason: Life existe à local variable :: local variable will be destroyed even before

:: local variable will be destroyed even brose the callee goes out of the stack and the ontrol goes back to caller et (Error):: variable not found.