	All our dreams can come true if we have DATE //
	Intro to Java & Architecture & Installation)
1	
$\rightarrow$	How Tava Code Executes:
	compiler Therenteter and the
e*	· java file   Class file   Intrepreter   Machine Code
P	(human readable) (byte tode) (time by time) (0 & 1)
Thomas .	8000
/ 3000	
	Ly this code will not directly non a system.
	Ly we need Jvm (Java virtual machine) to run this
	L> Reason why Java is platform independentiated
	Pseudocode (Representation of the managemental mindtola
	Li Byte code coin run on all operating system.
	La convert source code nto amachine la code absorteomputer
	Can understand.
4	compiler helps in doing this by turning it with
	executable code.
	Ly This executable code is set of instructions for the
	computer. : mun > 2 olina.
	La After compiling c/c++ code, we get e- exe file
	which is platformatependent jugge
Colonia	1 m Java we get bytewde, Jum converts this to
	mathine wde.
	Li Java is platform independent sibut tustus
	Jvm is platform dependent. Juice

apa sib	Architecture of Java: Jok vs JREVVS(iJVM) May JIT &  19 (10 (d)) Italy is  (IDK = JRE + Development i Tools and 19 pass of A.  (Java Development kit)
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	(Java virtual Machine)  L) 911111 Machine
	JIT
	(Just-in-Hmes) jusi.
	joua C
J	DK (moitoligned)
•	Provides environment to develop and run theroJAVA prom.
	It is a package that include.
	1. development touls: to provide an envoited develope ur prom
11	2. TRE: to execute ur prom. istorasitus
	3. a compiler - java c. mothusus vii po mis.
417	4. archivéntiars augus bouten uno .
a	is accongenerator i jewa docti wait mon
	6. interpreter/loader
	111 cJ
J	· Methods that and been repeated. It progr
(b) rived	Installation package that provides renulatorionly run the prom.
	· Maxes execution fastes. ( autoage lowetsking)
	1. Deployment technologies.
	2. User Interface toolkits.

	PAGE No.
	Architecture of toward
	3. Integration libraries. 24 det : 0000 10 renjoolistant
	4. Basic libraries
	5. Jum next things happen
	• After we get the classifiler, the next things happen
	at nuntime:
	I ALLIAN MORNING TO GIVE
	1. Tym gond and the Bute water
	format opercode and santage much
	Working of Jvm: 1975
	(sound houter punc)
	Compile Time
	TIU
	java filesmit-ni-tenti
	iava C
	java C Ccompilation)
mpro	· Provides environment to douglass and markenseeus
	or was parked that include.
· Magra Y	* 1. development -took: to provide an emotionart must
0	L. Intrepreter . Meger vir stungers of : 392 . C
	· Line by line execution. Davoj - religion D. E
	· One method called again & again into to
	many times it sobre interpret organil again.
	E. interpreter/ weder
	Ly JIT
	· methods that are been repeated. JIT provides
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	makes execution justes (troubage corrector)
	1. Deplayment technologies.
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	THE STATE OF STATES

DATE / /
Runtime: supportudità avait ja phistoid
class Loader
Jana Seurce Code
Byte code verifier
JDK Bytecode JRE 1
mterpreter
1 MAG
Runtime (neutrali)
<b>↓</b>
Hardware
(Mow JVM works) Class Loader
L> Loading
· reads. class file & generate binary data.
· object of class is created in heap.
La Linking
· Jum verifies class file.
· Allocate memory from for class variables &
agault values.
e Replace symbolic references from the type with direct reference.
with curect reference.
1 - Anithalization
L) Initialization  All Matic variables are assigned with their
· Au static variables are assigned with their values defined in the code & static block
values agricus in the second
Jvm contains the stack & Heap Memory Allocation.
VIII WITH THE PARTY OF THE PART

