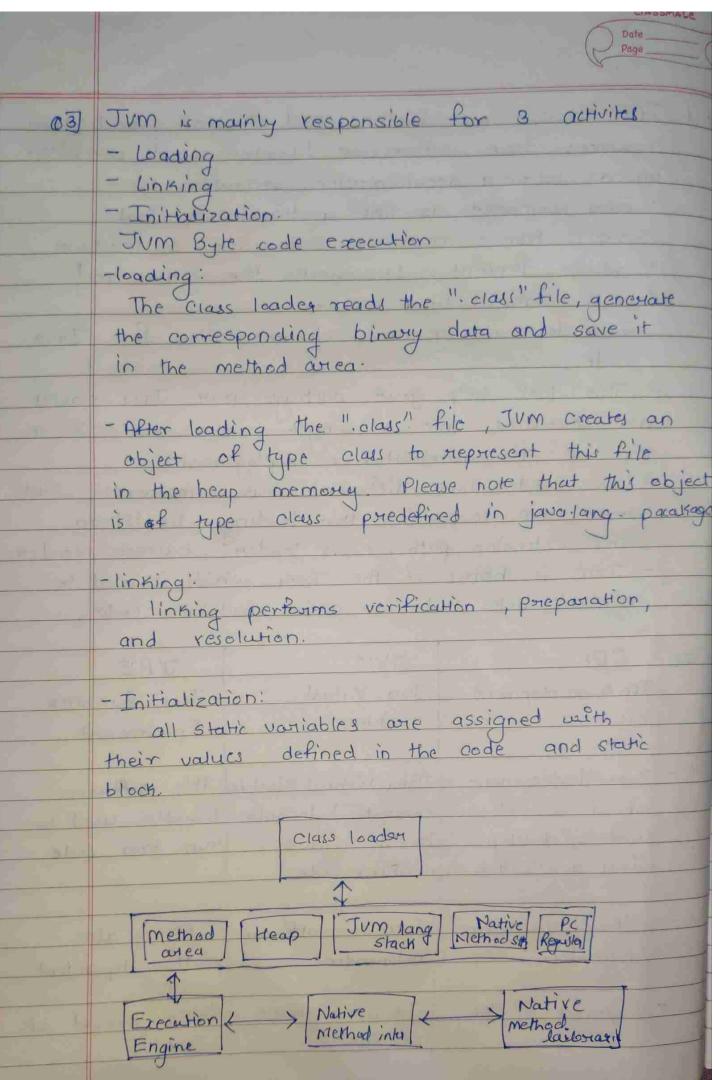
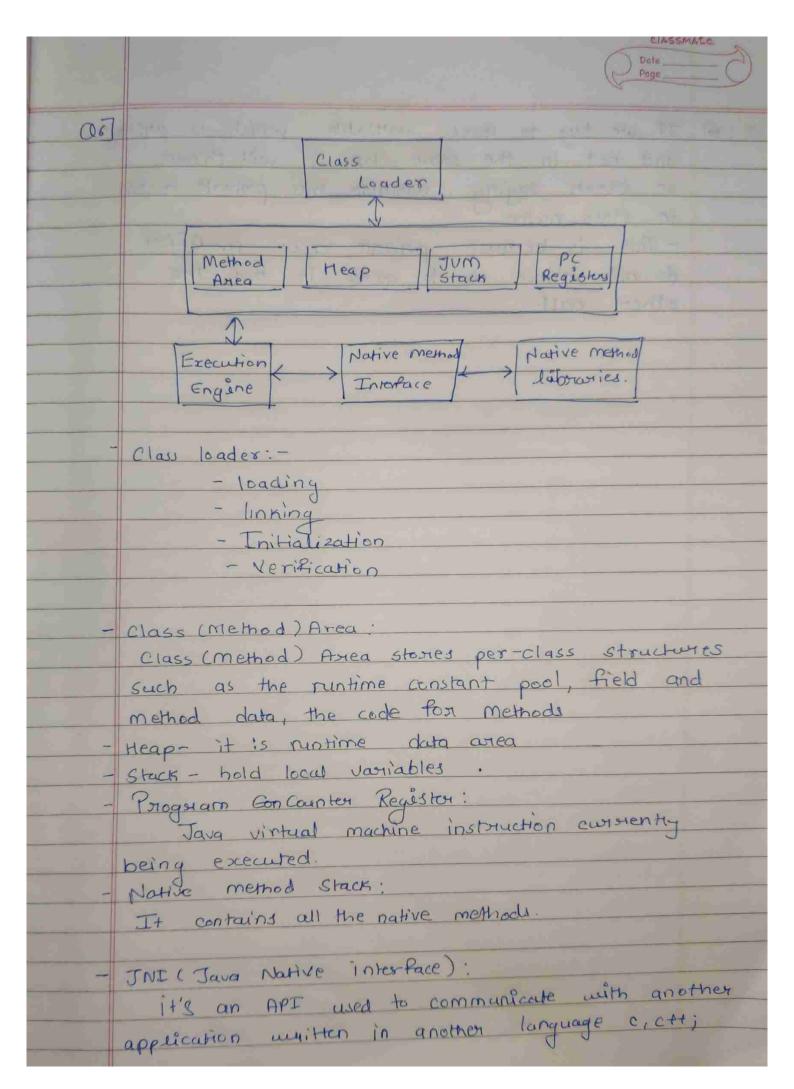
	Jon consist of	Taya Virtual Ma	chine and other
ou	JUN CONSIST OF	nterpreter 1 loades	and compiler
	resources line	locumentation gent	roto
	an wichiver a c	locumentation genr is like a transla	yton Mat
	Java compiler	readable code in	to a machine
	converts naman	. It checks the	syntax and
	detects compile	time error	9
	- Tour dos it	generates document	ation for Java
	code.	generas,	a stall
	- This tools help	your package yo	our Java clauses
	and resources in	nto a single am	chive file, like a
1 11	zin file tor dis	tribution or deploy	ment.
Rai I	- class loader has	ve different sub	components which
	LINDER OVE YESO	ensible for loading	2 bootstrap
	path, extension	oath, class loader	, custom loader
	- Jum is heart	of the Java w	hich is wed to
	convert byte a	ode to native made	thine code.
		and the state of t	1
@2]	JOK	JVM	JRE
	JAVA development	Java Virtual	Java Runtime
	Kit	Machine	Envoirment.
	Marin Jones William	tel of Jeantella 12	S. L. P.
	Java development	Jova Virtual Machin	it's software
	kit is a tool	converts byte code	bundle used to
	used to develop	to the parive	run java code
	Java application	machine code	
	7- 1.0	Jum is platform	JRE is also
	JOK is platform	indoorn don't	platfor dependent.
	dependent	independent	
	Superset of JRE	It is the subset	it is subset of
	Supersu of Single	of TRE	JOH .
V. II.			



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Exp	plain	Mem	ony 1	mana	gement	- 8	ystern	A	1 mul	No.
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L	1		report !				P WHI			
He	ap - 3	Sharre	d ru	ntim	e dat	a (	onea	qn	d Stone	3
	act	ial	obje	ct	in a	me				
Me	thad	cureo	07.0	logic	al p	aut	oP .	the	head o	элеа
and is created on virtual machine startup.  JUM Staus- A Stack is created at the same time								1p.		
								when the thread is created. Used to stone data		
					(2)					
		9							h belling	0
Native stack - Also called has a Stack, native										
				all	ocated	*	० भ ९	ach	thread	when
_			بالأسا	0	مثبوثت		^	1 1	J. D. Carl	
Pro the	gram	CO	add:	ness	Vegist	en a	nativi	cipat	pointer	utoting
Son	ne	Spec	ific	plat	form.					
										R F
	He the Me and who who and ret dy.  Nat me This it's Protection	Heap - Standard Is The actual Method and is when the and particular and particula	Heap - Share the actual  Method cureo and is an  Jum stack- when the th and partial returning dynamic line  Native stack- method stack This memore it's created.  Program con the return	Heap - Shared ru the actual obje  Method area - and is created  JVM stads - A sta when the thread and partial result returning the dynamic linking  Native stack - A method stacks ar This memory is it's created.  Program counter the return addit	Heap - Shared runtion the actual object  Method area - logic and is created a  JVM Stack - A stack when the thread is a and partial result wi returning the value dynamic linking.  Native stack - Also method stacks are This memory is all it's created.  Program counter - Pc the return address	Heap - Shared runtime date the actual object in a  Method area - logical portion of the actual object in a  Method area - logical portion of the actual object in a  Method area - logical portion of the actual of the stack is created and partial result which we returning the value for dynamic linking.  Native stack - Also called method stacks are not we this memory is allocated it's created.	Heap - Shared runtime data of the actual object in a me Method area - logical part and is created on virtual object in a me when the thread is created when the thread is created and partial result which will returning the value for a dynamic linking.  Native stack - Also called how method stacks are not certitation it's created.  Program counter - Pc register the return address on a	Heap - Shared Printine data area the actual object in a memory Method area - logical part of and is created on virtual made of and is created on virtual made and partial result which will be returning the value for method dynamic linking.  Native stack - Also called has a stack of a method of arcks are not carritten in this memory is allocated for e it's created.	Heap - Shared runtime data area and the actual object in a memory.  Method area - logical part of the and is created on virtual machine of the thread is created at the when the thread is created. Used to and partial result which will be need to an advise of a factor of the return or aldress of a native	Heap - Shared Register  Heap - Shared runtime data area and store the actual object in a memory:  Method area - logical part of the heap and is created on virtual machine starts  JVM stack - A stack is created at the same when the thread is created used to stone do and partial result which will be need to we returning the value for method and per dynamic linking.  Native stack - Also called has a stack, native method stacks are not written in Java to This memory is allocated for each thread it's created.  Program counter - PC register is capable of the return address or a native pointer

	classmate  Date Page
Q <u>S</u> )	The Just - In-Time compiler is a component of the runtime envoirment that imposures the performance of Java application by compiling byteode to native machine code of sun time.
	- Byte code is computer object ob code that an interpreter convents into binary machine code so it can be read by computers hardware processor.
	- byte code is low level code converted from the high level code that is human readable and compen hardware no only understand dryte code, Hence byte code is important.



Ø]	Jum - Java virtual machine converts the byle code into machine code.
	The java file first is convented into class  File by the compiler.
TO BE	Then this class files are loaded into jum by the class loader.
	This loaded byte code gets converted into machine code as per the machine. native language.  And then executed.
	Hence the class file is not dependent on the platform and hence we can say Java achieve platform independent by using JVM.
	The state of the s

ale 08	Class loader:
	Class loader is the integral part of JRE  It is used to load classes dynamically into  Jum to execute the byle code into native  machine.
	Class loader has subsystem
	D'Extension loader  2) Bookstrap loader  3) System class loader
	all these combined are used to execute the Java code.

Classmate Date Page
Carbage collectors is presponsible for collecting or reclaiming the memory variable that are pointing towards null or has no reference.
We can use system.gc() to invoke granbage collector.

P	acakage
	HE ARM LINE AND LINE
@9]	17 Private 21 Protected 31 Package level Private
	4) Public
	The state of the second of the
	- Private access modifier gives highest level of
down	security.
	If private modifier is used variable, method
6.3	are not visible outside the class to access
-	private we have to used getter and setter
L California	method:
	The second to the last button strong on a second in
	? Instituted:
	Ide con occas Parteclad
The same	anywhere in the class but in the substant
-	anywhere in the class but in the subclass only from the child class of the base

	Classmate Date Page
	class;
	from old among the first and the medical and the
	Pacakage level Private: -
	- Pacakage level private is also known has
	default access modifier.
	lefault modifier is used when no modifier
	is provided to the Variable, method on class.
	This fields method are only accessible
	forom the same class and not outside
	the class.
	Public: Followard of Horse 1917 most. 377
	Public access modifier to are used to access
	data from anywhere.
Little .	It provides lowest level of protection the
	data members are visible to all.

				classmate  Date Page
@16]	Parameters Put	li'c	Protected	Private Yes
	Same elass	Yes	Yes	No
	another class	Marie Ti	Continue to	H MACHANIA
	Subclass	Ves	Xes	No
Morito	Sublias	Yes	Yes	No
	Pacakge		The State of the s	totality of the
L bac	pacakage	Yes	No	No

-	the state of the s
2.7	Yes , we can overside the method with different
(01)	access modifier in the subclass, but the
	scope should not be decreased it is should
	be increased the same and an all the same
1 1 1 1 1	Protected method in super class can be overtiden
	with a private method has it's increasing the
	scope. Hence it's allowed.
	the test best selected manager of
	size out of both water setting produces
I HELL	be estable und blide sent mort who

		ATTENDED TO
012]	Protected	Paccurage level private
	Protected Variable	Pacarage level
	or methods are	private is only
	available in	available inside the
	Same package	same pacanage and
	but it it is	not outside the
	also available	pacakage to any
30 3	also available to the different	one.
	package class with	
	which inherits the	The state of the s
	base class	
3	there Francisco bighors teral	Committee Marine T.

015)	and not in the same class it will throw an error saying variable has private access
	- This is because private access modified do not allow us to access it for the

018	P. P
019	Parab Parkage level private access - modifical is also called default.
	- the default modifier changes the visibility
	of the variable method to only package it is in.
	- defaut feilds on methods cannot be accessed
	from the any other pacakage.
	Availbility: Same pacakage Same pacakage, different class.
133	Same pacakage, alt totem class
	L. C. C. L.

private on protected

the private will disable the usage of class
outside the elass and it will be of no use.

013	Private
	- Private class is allowed in Java but only
	for nested class or inner class
	- We cannot declare an Top level class as private
	- If we declare the class has private then it
	will only restricted to the particular class
16 17 1	it is in.
	- inorder to access the inner class we have
	to create a method in outer class which
1411	should be public and inside that method
E I was	we have to execute another public method
75 16	from the class.
	it was not show with which his strip.