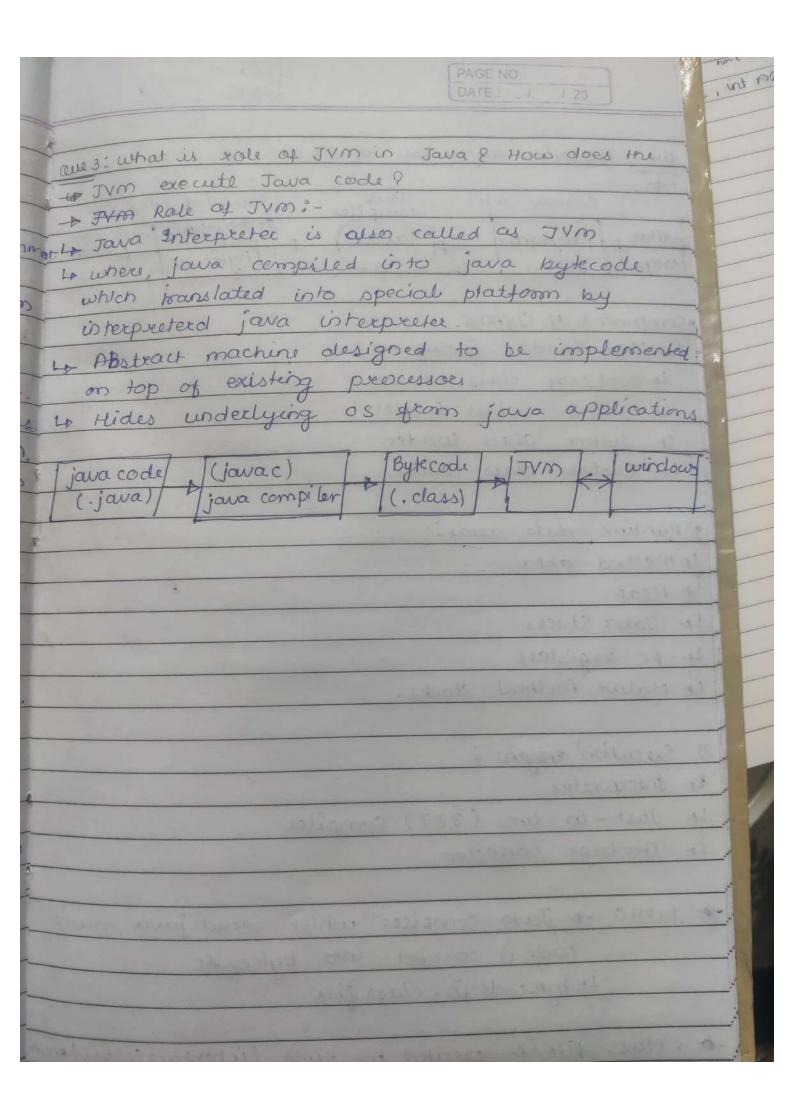
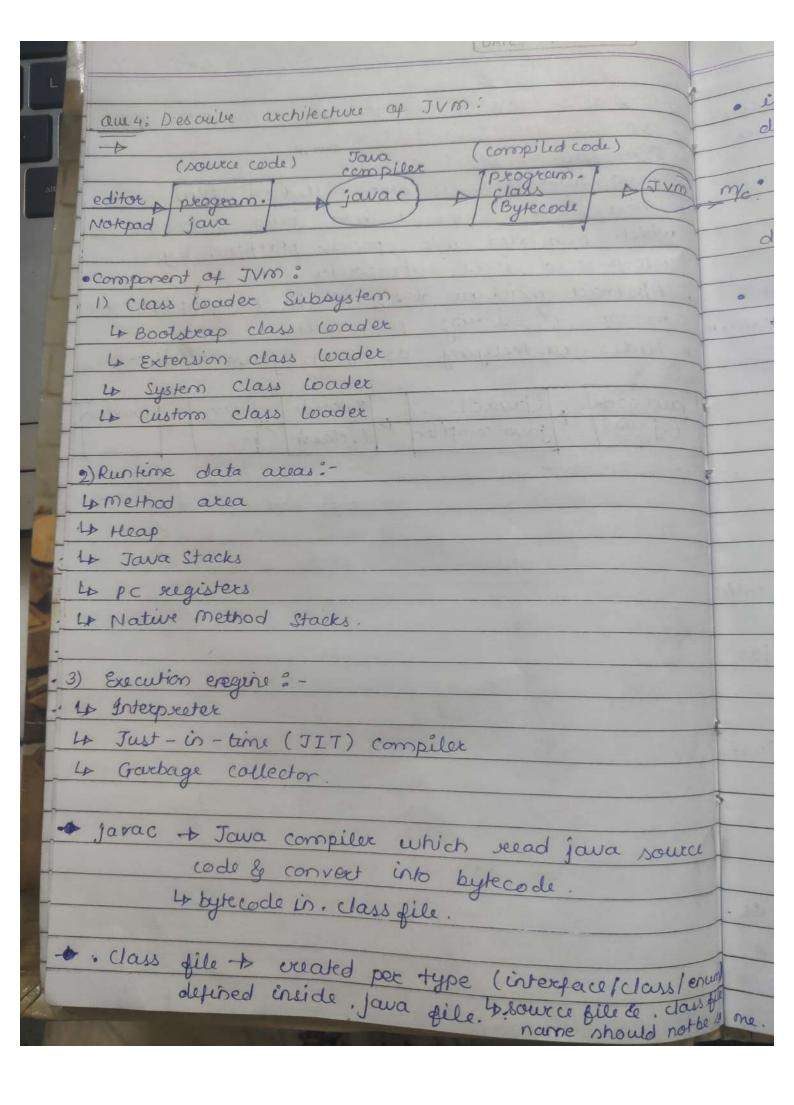


3) Jewa development kit: (JDK) 4 Is a software development environment used to develop java applications of applet LA It contains TRE & several development tools , a La interpreter / wader (java), compiler (javac), an archiver (jar), a document - ation generator (javadoc) accompanied with another tool.

T				
10	eurz: Difference between JDK, JVM, and JRE?			aue 3:
-	Difference to	i TUM	ORC	TV JV
	DJDK is journ deve	1) Jyrn is joua	1) JRE is java	→ 尹
	-lopment kit.	virtual machine	seus time envisconn	-LA JO
*	Sellioned at	and to tan our		Lo ce
	2) JDK is Software	2) It is a platform	2) It is a implement	wt
	development kit that	independent abstr	-entation of JVM	in
	develops applican	- act machine,	It is a type of	Lo F
	in Java. It has	It describe the	Software package	on
	vacious development	requirement of	that preovides da	20
	tools: java debugger		lib. of java, Jum	
	java doc, compilers,		& various compos	1 ja
-	etc.		ent.	
i		STEPRE SOLVE		
	3) JDK is primorily	3) Jym does not	3) JRE does not.	
ı	responsible for deve	consist of any	have tools . It	
	- lopment .9+ has	tools for software		
	various tools java,	development.	supporting files	
	debugger, joua doc,	to addresses of	for JVM & class	
	compiler etc.	THE RESERVE OF THE	4.1	
	' de nondent mana	some some or		
- 4	4) It required different	4) It is independent	4) 9+ is also	
1	JOK for every diff	means won't	dependent &	
4	platform.	require diff. JVM	require differe	N
4	water sant killerale	for every platform	JRE for every di	3
		londing.		
			platform.	
5	5) JOK primarily assist 5) Specifies all 5) maior responsible			
0	in exe. code.	implementain . 9t	5) major reesponsi	
		responsible for provin	-littles for creating	
		the of the standard		
1		to JRE.	Code.	
		W. Land W. St.		Sharp





it java pile is empty then java compiler : de not gen exate . class gile. Me it is obj. oriented assembly lang code. designed for Jym, if we want to disassemble the bytecode then we should javap toot.

aues: what is significance of class loader in Javage			
what is the prescess of garbage collection is	Garba		
what is the pro-			
java?  A class loader is an abstract class.	that		
h laud lang puckey	4		
to load dasses to	Gark		
Le classes loaded into JVIII according to and	L		
- 4 First class loader run when java program exec			
Bootstrap class coader:			
	LD		
Extension class (exader)	4		
System class loader			
A K			
fclass 1) [class 2]	lo.		
1 1800ts trap Class Loader: - Starts aperation when Jvm call			
Loit is not jour class.			
- 4 Bootstrap class wader loads classes from Ht.ja			
	-		
kap			
2) Extension class wader: - Child of Bootstrap class low			
- Committee of Com			
Les wads files from jue / lib/ ext directory.			
To rext assecting.	1		
3) System class (vaders: - is also call			
4 shild of extension called as system			
4 child of extension class loader.			
LA loads application type classes found in enver			
-erv.			

Garbage collection: -+ 9+ is automated process of deleting code that's no longer needed or used. It stee up memory space be ideally makes coding java apps easier for developers Garbage collection process use mark & sweep algorith LA there are two phases in algorithm: mack-m:followed by sweep. Le Java obj created in heap, it has mark bits i.e set to (0) false. 1> mark phase :- garbage collector transperses object trees starting at their repots - when object relachable from root mark bit is set to (1) frue. Le sweep phase: - garbage collector traverses treap sectaining memory from all items.

with mark but of (0) false. Cally ar