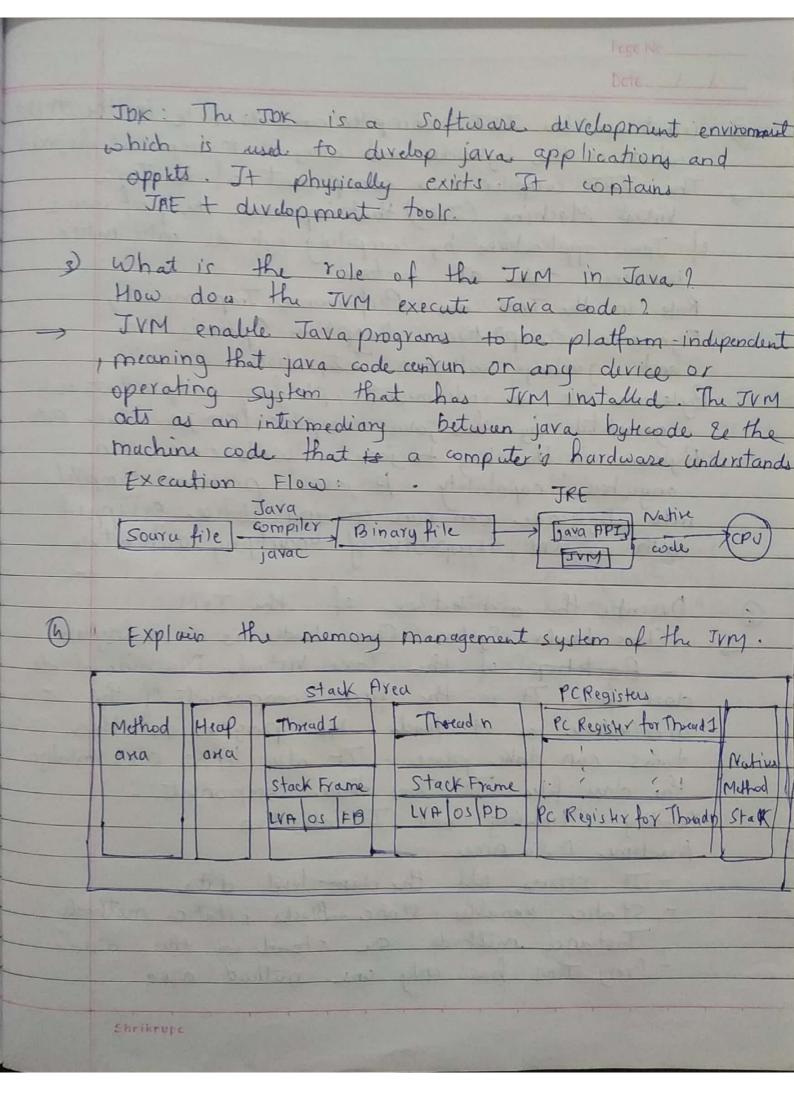
Java Interview Questions 1 Explain the components of the JOK -> D applitviewer -> This tool is used to run and debug java applets without a web browser. apt > It is an annotation-processing tool java - The loader for Java applications. This tool is an interpreter and can interpret the class files generated by the javac compiler. javac > It specifies the java compiler , which converts source code into java bytecode. jar - The specifics the achiver, which package related class libraries into a single jar file. This tool also helps manage JAR files. javadoc > The documentation generator, which parkages related clas libr outsmatically generates documentation from source code comments. Differentiate bet" JDK, JVM & JRE (2) JVM > JVM is an abstract machine. It is called exists. It is a specification that provides a runtine environment in which Java byterode can De executed. JRE - JRE is a set of software tools which are used for developing java applications. It is used to provide the runtime environment. It is the implementation of TVM. It physically exists It contains a set of libraries to other files that JVM uses at runtime.



5) What are the JIT compiler and its role in the JVM. what is the byteade and why is it important for java) , The JIT compiler is a component of the Java Virtual Machine (JVM) that improves the performance of Java applications by compiling bytecode into natire machine code at suntime. Role in the JVM are Performance Improvement, Dynamic Compilation, Adaptive Optimization and garbage collection Integration. Bytecode is an intermediate, platform independent code generated by the java compiler from java source code. Bykode is the Key to java's write once, run anywhere capability. A jova program compiled into byterode can run on any divice equipped with a JVM, irrespective of underlying architecture Describe the architecture of the TVM - Class Loader System: Class loader is a subsytem - Bootstrap of the Java Virtual Machine loads class files! It is the first component of the tasks can take place. It also links and initialize the class files. It has those components Loading, linking and Initialization Runtine Data Areas - It stores all the dass-level data - Static Variables, static Blocks, static methods , Instance methods are stored in this area - Every JVM has only one milhod area