**1.What is the difference between JDK and JRE?**  
Ans-JDK stands for java development kit. JDK is a complete software kit to develop java applications it consist of JRE(java runtime environment),java compiler(javac), java archiver( jar), java debugger ,javadoc etc.

JRE stands for Java runtime environment.JRE provides libraries, JVM for the working of applications written in java languages.it doed not contain development tools like debugger.  
  
**2. What is Java Virtual Machine (JVM)?**Ans-JVM is a virtual environment to run java byte code which makes it platform Independent.  
  
**3. What are the different types of memory areas  
allocated by JVM?**Ans- The Java Virtual Machine (JVM) allocates memory into five main areas for program execution: the Heap for objects, the Stack for method calls and local variables, the Method Area (or Metaspace) for class data and static variables, the Program Counter (PC) Register for bytecode instruction addresses, and the Native Method Stack for native code execution  
  
**4. What is JIT compiler?**  
Ans-JIT Stands for Just in Time compiler it works on runtime it converts the bytecode into machinecode at runtime.  
  
**5. How Java platform is different from other platforms?**Ans-Because it provides “write once run anywhere” functionality and runs on any platform.  
  
**6. Why people say that Java is ‘write once and run anywhere’ language?**  
Ans-java is a “Write once and run anywhere” language because it is a platform independent language, it has JVM which compiles bytecode .java program is run at any platform having compatible

JVM.

**7. How does ClassLoader work in Java?**Ans-Loads class files into memory. It verifies the correctness of the java bytecode

and loads classes on demand.  
  
**8. Do you think ‘main’ used for main method is a keyword in Java?**Ans-when JVM starts to load the class files and run the java bytecode it searches for the starting of the program. Main method refers the Starting of the program. So the main method executed first and other methods are calls in the main method. main works as keyword in main method.  
  
**9. Can we write main method as public void static instead of public static void?**

**Ans-** Yes, the Java program will run successfully if you write static public void main instead of the conventional public static void main. Java is flexible regarding the order of access modifiers, and both declarations are valid for the main method**.**