**Q1.What is the difference between Compiler and Interpreter?**

**Ans.** **Compiler -> It is a software which takes sourcecode(HLL) as the input and generates MLL code as the ouput To convert the HLL code to MLL code compiler will scan the HLL code only once.**

**Interpreter =>It is a software which takes sourcecode(HLL) as the input and generates MLL code as the ouput To convert the HLL code to MLL code interpreter will scan the HLL code mulitple times(depends on the instrcutions).**

**Q2.What is the difference between JDK, JRE, and JVM?**

**Ans.=> JDK stands for Java Development kit, it provides libraries and the requried files to run our java programs**

**=> JDK :: JRE + JVM**

**=> JRE :: Java RunTimeEnvironment, It provides suitable environment to run our java program.**

**=> JVM :: Java Virtual Machine, It is responsible to run our java programs on the basis of MultiThreading.**

**Q3.How many types of memory areas are allocated by JVM?**

**Ans .1. Class (method) area**

**2.Heap**

**3.Stack**

**4.Program counter register**

**5.Native method stack.**

**Q4.What is JIT compiler?**

**Ans . JIT use to execute of programs after compilation by javac.**

**Q5.What are the various access specifiers in Java?**

**Ans . java provides 4 types of access modifiers i.e. default,public,private,and protected.**

**Q6.What is a compiler in Java?**

**Ans. Compiler -> It is a software which takes sourcecode(HLL) as the input and generates MLL code as the ouput To convert the HLL code to MLL code compiler will scan the HLL code only once.**

**Q7.Explain the types of variables in Java?**

**Ans.** **1. Number**

**a. Integral type**

**byte,short,int,long**

**b. Floating type**

**float, double**

**2. Character**

**a. char**

**3. Boolean type**

**Q8.What are the Datatypes in Java?**

**Ans Datatype use to defines type of data.**

**Q9.What are the identifiers in java?**

**Ans . identifiers in java are symbolic names used to define identity.**

**They can be a class name ,variable name, method name ,variable or a constant.**

**Q10.Explain the architecture of JVM?**

**Ans . its done in following steps-**

**1. Class (method) area**

**2.Heap**

**3.Stack**

**4.Program counter register**

**5.Native method stack.**