JAVA

1. Java Virtual Machine

JVM stands for Java Virtual Machine which is a run-time environment for the compiled java class files.

2. Are JavaScript and Java the same?

- Java is an OOP programming language while Java Script is an OOP scripting language.
- Java creates applications that run in a virtual machine or browser while JavaScript code is run on a browser only.
- Java code needs to be compiled while JavaScript code are all in text.
- They require different plug-ins.

3. Java Runtime Environment

- JRE is what we need to run a Java program and contains set of libraries and other files that JVM uses at run time.
- JRE = JVM + Library Classes

4. Java Development Kit

- JDK is what we need to compile Java source code and contains JRE, development tools.
- JDK = JRE + Development tools

5. What are the popular topics for Java Interview?

Some of the popular topics for Java interview are:

- OOPS Concepts
- Java String
- Collections Framework
- Multithreading
- Generics
- Exception Handling
- Stream API
- Lambda Expressions
- Latest Release Features
- Java EE Frameworks Spring, Hibernate etc.

6. What are the advanced Java Topics?

Some of the popular topics for Java interview are:

- Heap and Stack Memory
- Garbage Collection
- Reflection API
- Thread Deadlock
- Java ClassLoader
- Java Logging API
- Internationalization in Java
- Java Module System

7. Which class is the superclass of all classes?

• java.lang.Object is the root class for all the java classes, and we don't need to extend it.

8. What is the method?

- Collection of statements that are grouped together to perform an operation. When you call the **System.out.println()** method, for example, the system actually executes several statements in order to display a message on the console.
- A method is a set of code which is referred to by name and can be called (invoked) at any point in a program simply by
 utilizing the method's name. Think of a method as a subprogram that acts on data and often returns a value. Each method
 has its own name.

9. What is the constructor?

- A constructor in Java is a special method that is used to initialize objects. The constructor is called when an object of a class is created.
- Each time an object is created using new() keyword at least one constructor (it could be default constructor) is invoked to
 assign initial values to the data members of the same class.