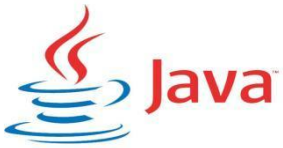

Core

1. Introduction to Java.
    - Drawbacks of C and C++.
    - History of Java and Releases of Java.
2. Installation of Java S/W.
    - How to download JDK Software.
    - Installation and setting the class path.
3. First Java Program.
    - Explanation with execution steps.
    - generating .class files
4. Naming Rules in Java.
5. Data Types in Java.
    - Eight data types and its sizes.
6. Operators in Java.
    - Arithmetic Operators.
    - Relational Operators.
    - Logical Operators.
    - Bitwise Operators.
    - Increment/Decrement Operators.
    - Ternary Operator.
    - Instanceof Operator.
7. Control Statements in Java.

    (If-else, else if,switch,while,do while,for,break,continue,exit())
8. Reading the data from Keyboard.
    - Classes used to read the data from the keyboard.
    - Steps for reading the data from the keyboard.
    - Reading character from the keyboard.
    - Reading string from the keyboard.
    - Reading integer, float and double values from the keyboard
9. Strings in Java.
    - Types of ways to create a string.
    - ➔ Comparing '==' and 'equals ()' method.
    - Immutable and Mutable Objects.
    - Difference b/w StringBuffer and StringBuilder classes.
10. Arrays in Java.
    - Introduction to arrays.
    - Types of Arrays.
    - Types of ways to create a 1D Array with examples.
    - Types of ways to create a 2D Array with examples.
11. OOPS Features.
    - Types of Programming Languages.
    - Objects.
    - Classes.
    - Data Abstraction.
    - Data Encapsulation.
    - Inheritance.
    - Polymorphism.
    - Dynamic Binding.
    - Message Passing.
12. Syntaxes for creating a class and object.
13. Examples on OOPS.
    - What are the default values of the data members of a class.
    - How many ways we can initialize the data members of a class.
14. Constructors in Java.
    - Definition and rules for writing a Constructor.
    - Types of Constructors.
    - Constructor Overloading.
    - 'this' keyword importance.
    - how to call the constructor by using this keyword.
15. Types of methods in Java.
    - Examples on Static and Factory methods.
16. 'Static' keyword importance.
    - Difference b/w instance block and static block and constructor.
17. Inheritance in Java.

- **Types of Inheritances.**
- **Example on Inheritance.**
- **Calling default Constructor from the base class.**
- **Calling parameterized Constructor from the base class.**

18. **'Super' keyword importance.**
    - **Calling super class datamembers, methods and constructor.**
19. **'Final' keyword importance.**
    - **Need of final keyword at Variable level, Method Level and class level.**
20. **Polymorphism in Java.**
    - **Method Overloading.**
    - **Method Overriding.**
21. **Abstract classes.**
    - **Types of classes in Java.**
    - **How to create Abstract classes.**
    - **Examples on Abstract classes.**
22. **Interfaces.**
    - **Similarities b/w Abstract classes and interfaces.**
    - **Dis-Similarities b/w Abstract classes and interfaces.**
    - **How to create interface.**
    - **Achieving Multiple Inheritance using interfaces.**
    - **How to use 'extends' and 'implements' keywords at a time.**
23. **Packages.**
    - **Need of packages.**
    - **List of Predefined Packages in Core Java.**
    - **User-defined Packages and steps to create them.**
    - **Package with Sub Package.**
    - **Access Specifiers in Java.**
    - **Example to show the scope of Access Specifiers with packages.**
25. **Exception Handling in Java.**
    - **Types of errors in Java.**
    - **Def of exception and exception handling.**
    - **Hierarchy of Exceptions.**
    - **Checked and unchecked exceptions.**
    - **How to handle the exceptions using try, catch and finally.**
    - **Difference b/w throw and throws with examples.**
    - **Steps to create user defined exceptions.**
    - **Example on user defined exceptions.**
26. **Multithreading.**
    - **What is thread and what is default thread.**
    - **How to create our own thread.**
    - **How to create multiple threads.**
    - **Thread synchronization.**
    - **Thread dead lock.**
    - **Wait (), notify (), notifyAll () methods.**
    - **Join () method.**
    - **Thread lifecycle.**
27. **Wrapper classes.**
    - **Need of wrapper classes and list.**
    - **.**
28. **File Handling.**
    - **Need of files.**
    - **How to create files.**
    - **How to send the data to a file.**
    - **How to read the data from a file.**

31. **Collection Framework.**
    - **Need of Collection Framework.**
    - **Hierarchy of Collection Framework.**
    - **Important interfaces of Collection Framework.(List, Set, Map, Queue etc).**
    - **Examples on ArrayList, Vector, LinkedList.**
    - **Examples on HashSet, LinkedHashSet, TreeSet.**
    - **Examples on Hashtable, HashMap, LinkedHashMap, TreeMap.**
    - **Examples on how to sort the elements and finding biggest element etc.**
32. **Special class with IDE'S Like Eclipse and Net beans etc.**

Note :

Nearly 150 interview questions in Core Java.