## Java Interview Questions

- 1. What is the difference between pass by reference and pass by value?
- 2. What are the different types of memory areas allocated by JVM?
- 3. Why people say that Java is 'write once and run anywhere' language?
- 4. Are arrays primitive data types?
- 5. What are local variables?
- 6. What are instance variables?
- 7. How to define a constant variable in Java?
- 8. What is the purpose of declaring a variable as final?
- 9. In Java, if we do not specify any value for local variables, then what will be the default value of the local variables?
- 10. What are the main principles of Object Oriented Programming?
- 11. What is a local, member and a class variable?
- 12. In Java what is the default value of an object reference defined as an instance variable in an Object?
- 13. Why do we need constructor in Java?
- 14. What is the value returned by Constructor in Java?
- 15. Can we inherit a Constructor?
- 16. Why constructors cannot be final, static, or abstract in Java?
- 17. What is the purpose of 'this' Keyword in java?
- 18. Explain the concept of Inheritance?
- 19. Which class in Java is superclass of every other class?
- 20. What is the purpose of 'super' keyword in java?
- 21. Is it possible to use this() and super() both in same constructor?
- 22. What is the purpose of static method in Java?
- 23. Why do we mark main method as static in Java?
- 24. What is the difference between static method and instance method in Java?
- 25. How will you implement method overloading in Java?
- 26. How do we implement method overriding in Java?
- 27. Are we allowed to override a static method in Java?
- 28. Why Java does not allow overriding a static method?
- 29. What is the difference between method overloading and method overriding in Java?
- 30. Does Java allow virtual functions?
- 31. What is meant by covariant return type in Java?
- 32. What is Runtime Polymorphism?
- 33. Explain the difference between static and dynamic binding?
- 34. What is Abstraction in Object Oriented programming?
- 35. How is Abstraction different from Encapsulation?
- 36. What is an abstract class in Java?
- 37. Is it allowed to mark a method abstract method without marking the class abstract?
- 38. Is it allowed to mark a method abstract as well as final?

- 39. Can we instantiate an abstract class in Java?
- 40. What is an interface in Java?
- 41. Is it allowed to mark an interface method as static?
- 42. Why an Interface cannot be marked as final in Java?
- 43. What is the difference between abstract class and interface in Java?
- 44. Does Java allow us to use private and protected modifiers for variables in interfaces?
- 45. How can we cast to an object reference to an interface reference?
- 46. Can a class be marked final in Java?
- 47. How can we create a final method in Java?
- 48. What is the purpose of package in Java?
- 49. What is java.lang package?
- 50. What is Garbage Collection in Java?
- 51. How does Garbage Collection work in Java?
- 52. What is a Nested class?
- 53. How many types of Nested classes are in Java?
- 54. What is the difference between a Nested class and an Inner class in Java?
- 55. What is the meaning of Immutable in the context of String class in Java?
- 56. Why a String object is considered immutable in java?
- 57. Why Java uses String literal concept?
- 58. What is the basic difference between a String and StringBuffer object?
- 59. What are the main benefits of Collections Framework in Java?
- 60. What is the root interface of Collection hierarchy in Java?
- 61. In Java, how will you decide when to use a List, Set or a Map collection?
- 62. What are the differences between Comparable and Comparator?
- 63. What is the reason for overriding equals() method?
- 64. What is an Iterator in Java?
- 65. What are the different ways to iterate elements of a list in Java?
- 66. How will you sort objects by Natural order in a Java List?
- 67. What is the difference between x == y and x.equals(y) expressions in Java?
- 68. What is the use of run time polymorphism in Java?
- 69. What are the rules of method overloading and method overriding in Java?
- 70. What is the difference between a class and an object in Java?
- 71. Can we create an abstract class that extends another abstract class?
- 72. Why do you use Upcasting or Downcasting in Java?
- 73. What is the reason to organize classes and interfaces in a package in Java?
- 74. What is information hiding in Java?
- 75. What is the difference between super and this keywords in Java?
- 76. What are Wrapper classes in Java?
- 77. What is the access scope of a protected method?
- 78. Can an Interface implement another Interface?
- 79. Can an Interface extend another Interface?
- 80. What is an abstract method?