

## [Top 100 Java interview questions for freshers pdf](#)

1. [What is Java, and why is it popular?](#)
2. [What are the main features of Java?](#)
3. [Explain the difference between JDK, JRE, and JVM.](#)
4. [What is the main difference between == and .equals\(\) in Java?](#)
5. [Explain the concept of object-oriented programming \(OOP\) in Java.](#)
6. [What are the four principles of OOP, and why are they important?](#)
7. [Describe the main components of a Java program.](#)
8. [What is a class in Java, and how is it used?](#)
9. [Explain the concept of inheritance in Java with an example.](#)
10. [What is polymorphism, and how is it implemented in Java?](#)
11. [Describe the types of polymorphism in Java.](#)
12. [What is encapsulation, and why is it important in Java?](#)
13. [Explain the difference between abstract classes and interfaces.](#)
14. [What are constructors in Java, and how are they used?](#)
15. [Describe the types of constructors in Java.](#)
16. [What is method overloading, and how is it implemented in Java?](#)
17. [Explain the concept of method overriding in Java.](#)
18. [What are access modifiers, and how do they control access to class members?](#)
19. [Describe the different types of access modifiers in Java.](#)
20. [What is the 'final' keyword used for in Java?](#)
21. [Explain the difference between 'final', 'finally', and 'finalize' in Java.](#)
22. [What is static binding, and how does it differ from dynamic binding?](#)
23. [Describe the main types of variables in Java.](#)
24. [What is a static variable, and how is it different from an instance variable?](#)
25. [Explain the purpose of the 'this' keyword in Java.](#)
26. [What is a package in Java, and how is it used?](#)
27. [Describe the main types of packages in Java.](#)
28. [What is the purpose of importing packages in Java?](#)
29. [Explain the difference between 'ArrayList' and 'LinkedList' in Java.](#)
30. [What is the 'HashMap' class used for in Java?](#)
31. [Describe the main features of the 'HashMap' class.](#)
32. [What is the difference between 'HashSet' and 'TreeSet' in Java?](#)
33. [What is the 'Collections' framework in Java, and why is it used?](#)
34. [Explain the concept of generics in Java.](#)
35. [What are the benefits of using generics in Java?](#)
36. [Describe the main types of exceptions in Java.](#)
37. [What is the purpose of exception handling in Java?](#)
38. [Explain the difference between checked and unchecked exceptions.](#)
39. [Describe the main components of exception handling in Java.](#)
40. [What is the purpose of the 'try', 'catch', and 'finally' blocks in Java?](#)
41. [Explain the concept of multi-threading in Java.](#)

42. [What is a thread, and how is it different from a process?](#)
43. [Describe the main methods of creating threads in Java.](#)
44. [What is synchronization, and why is it important in multi-threaded programming?](#)
45. [Explain the concept of deadlock in Java.](#)
46. [Describe the main ways to prevent deadlock in Java.](#)
47. [What is the purpose of the 'volatile' keyword in Java?](#)
48. [Explain the difference between 'wait\(\)', 'notify\(\)', and 'notifyAll\(\)' in Java.](#)
49. [Describe the main types of garbage collectors in Java.](#)
50. [What is the purpose of garbage collection in Java?](#)
51. [Explain the concept of memory management in Java.](#)
52. [What are the main data types in Java?](#)
53. [Describe the difference between primitive and reference data types in Java.](#)
54. [Explain the purpose of autoboxing and unboxing in Java.](#)
55. [What is type casting, and how is it implemented in Java?](#)
56. [Describe the main types of operators in Java.](#)
57. [What is the purpose of conditional statements in Java?](#)
58. [Explain the difference between 'if', 'else if', and 'else' in Java.](#)
59. [Describe the main types of loops in Java.](#)
60. [What is the purpose of the 'break' and 'continue' statements in Java?](#)
61. [Explain the concept of arrays in Java.](#)
62. [Describe the main types of arrays in Java.](#)
63. [What is the purpose of the 'length' property in Java arrays?](#)
64. [Explain the concept of varargs in Java.](#)
65. [What is the purpose of the 'toString\(\)' method in Java?](#)
66. [Describe the main types of string manipulation methods in Java.](#)
67. [Explain the difference between 'String', 'StringBuffer', and 'StringBuilder' in Java.](#)
68. [What is the purpose of the 'equals\(\)' and 'hashCode\(\)' methods in Java?](#)
69. [Describe the main types of sorting algorithms in Java.](#)
70. [Explain the difference between bubble sort and quicksort in Java.](#)
71. [What is the purpose of searching algorithms in Java?](#)
72. [Describe the main types of searching algorithms in Java.](#)
73. [Explain the purpose of the 'compareTo\(\)' method in Java.](#)
74. [Describe the main types of collection classes in Java.](#)
75. [What is the purpose of the 'Comparable' and 'Comparator' interfaces in Java?](#)
76. [Explain the concept of file handling in Java.](#)
77. [Describe the main types of file handling operations in Java.](#)
78. [What is the purpose of the 'InputStream' and 'OutputStream' classes in Java?](#)
79. [Explain the concept of serialization and deserialization in Java.](#)
80. [Describe the main types of input/output streams in Java.](#)
81. [What is the purpose of the 'File' class in Java?](#)
82. [Explain the concept of networking in Java.](#)
83. [Describe the main types of network protocols supported by Java.](#)
84. [What is the purpose of the 'Socket'](#)
85. [What is the purpose of the 'Socket' class in Java networking?](#)

86. [Explain the difference between TCP and UDP protocols in Java networking.](#)
87. [What is the purpose of the 'ServerSocket' class in Java?](#)
88. [Describe the main steps involved in creating a client-server application in Java.](#)
89. [What is the purpose of the 'URL' class in Java networking?](#)
90. [Explain the difference between 'URLConnection' and 'HttpURLConnection' in Java networking.](#)
91. [What is the purpose of the 'URLConnection' class in Java?](#)
92. [Describe the main types of exceptions thrown in Java networking.](#)
93. [What is the purpose of the 'BufferedReader' and 'BufferedWriter' classes in Java I/O?](#)
94. [Explain the concept of serialization and deserialization in Java.](#)
95. [Describe the main steps involved in serializing and deserializing objects in Java.](#)
96. [What is the purpose of the 'ObjectInputStream' and 'ObjectOutputStream' classes in Java?](#)
97. [Explain the difference between 'FileReader' and 'FileWriter' in Java I/O.](#)
98. [Describe the main types of streams in Java.](#)
99. [What is the purpose of the 'Scanner' class in Java?](#)
100. [Explain the concept of exception propagation in Java.](#)