Java Interview Questions

## Core Java Questions:

1. What is Object class in Java programming language?
2. What are the non-static methods defined in the Object class that are inherited by all classes?
3. What are final classes and final methods Java programming language?
4. What are the access modifiers?
5. What are the Non-access modifiers that can be added to a class declaration?
6. What are classes and objects in java?
7. What is instance variable?
8. What is a method? Types of method.
9. What is use of new keyword?
10. What are different ways to initialize an object?
11. What are the different ways to create an object in Java?
12. Difference between C, C++ and java.
13. What do you know about oops concept?
14. Pillars of Oops. Explain them.
15. What is the difference between an object-oriented programming language and object-based programming language?
16. What is constructor? Explain types of constructor in java.
17. What are the rules for creating java constructor?
18. Explain constructor overloading in java.
19. Difference between constructor and method in Java.
20. Which class is a superclass of all classes?
21. What is the static keyword?
22. What are finally and finalize in Java?
23. What is Type casting in Java?
24. What is break and continue statement?
25. What is an interface?
26. What is aggregation in Java?
27. What is the use of System class in Java?
28. . What is an instance of keyword?
29. What is an Iterator?
30. What is the Java Collections Framework?
31. What do you understand about Thread Priority?
32. What is multi-threading?
33. Which is more preferred – Synchronized method or Synchronized block?
34. Explain the Java Exception Hierarchy.
35. What happens when an exception is thrown by the main method?
36. How do you ensure that N thread can access N resources without getting into the Deadlock situation?
37. What is String in Java?
38. What are different ways to create String Object?
39. Write a method to check if input String is Palindrome?
40. Write a method that will remove given character from the String?
41. How can we make String upper case or lower case?
42. What is String subSequence method?
43. How to compare two Strings in java program?
44. How to convert String to char and vice versa?
45. How to convert String to byte array and vice versa?
46. Can we use String in switch case?
47. Write a program to print all permutations of String?
48. Why Char array is preferred over String for storing password?
49. What is String Pool?
50. How do you check if two Strings are equal in Java?
51. Does String is thread-safe in Java?
52. Why String is popular HashMap key in Java?
53. Which class does not override the equals() and hashCode() methods, inheriting them directly from class Object?
54. Tell me something about stringbuffer and string builder class.
55. What is the difference between StringBuffer and String class ?
56. Difference between StringBuffer and StringBuilder ?
57. Explain the scenerios to choose between String , StringBuilder and StringBuffer ?
58. what will be the output of this code ?  
      
    public static void main(String[] args)  
      {  
            StringBuffer s1=new StringBuffer("Buggy");  
              
                   test(s1);  
              
            System.out.println(s1);  
              
      }   
       
     private static void test(StringBuffer s){  
     s.append("Bread");  
     }
59. will be the output of this code ?  
      
    **public static void main(String[] args)**  
     **{**  
     **String s1=new String("Buggy");**  
      
    **test(s1);**  
      
     **System.out.println(s1);**  
      
     **}**  
      
     **private static void test(StringBuffer s){**  
     **s.append("Bread");**  
     **}**
60. what will be the output of this code ?  
     **public static void main(String[] args)**  
     **{**  
     **StringBuffer s1=new StringBuffer("Buggy");**  
      
    **test(s1);**  
      
     **System.out.println(s1);**  
      
     **}**  
      
     **private static void test(StringBuffer s){**  
     **s=new StringBuffer("Bread");**  
     **}**
61. Which of the two "StringBuilder" or "StringBuffer" is faster and Why ?
62. What is Serialization in Java?
63. How to make a Java class Serializable?
64. What is the difference between Serializable and Externalizable interface in Java?
65. How many methods does Serializable have? If no method then what is the purpose of the Serializable interface?
66. While serializing you want some of the members not to serialize? How do you achieve it?
67. What will happen if one of the members in the class doesn't implement Serializable interface?
68. If a class is Serializable but its super class in not, what will be the state of the instance variables inherited from super class after deserialization?
69. Can you Customize the Serialization process or can you override default Serialization process in Java?
70. Suppose super class of a new class implement Serializable interface, how can you avoid new class to being serialized?
71. What is the need of Serialization?
72. What is the difference between Inheritance and composition in Java?
73. Types of Inheritance in java
74. What is Super Keyword in Java?
75. What is the difference between Inheritance and Encapsulation?
76. What is Method overloading and overriding in Java?
77. Is it possible to override a private method in Java?
78. In Java, Constructor over-riding is possible?
79. Can a class can implement more than one interface in Java? Is it possible?
80. How can we run a java program without making any object?
81. Similarity and Difference between static block and static method ?
82. How can we create objects if we make the constructor private ?
83. Is it possible to compile and run a Java program without writing main( ) method?
84. Can we initialize member variables within static block ?
85. What are the Wrapper Classes?
86. Why do we need Wrapper classes?
87. Operators in java
88. Datatypes and types of Datatypes
89. Collections
90. What is the Collection framework in Java?
91. Main difference between arrays and collections
92. Explain various interfaces used in Collection framework?
93. What is the difference between ArrayList and LinkedList?
94. What is the difference between Iterator and Enumeration?
95. What is the difference between List and Set?
96. difference between HashSet and Hashmap?
97. What is the difference between Collection and Collections
98. Difference between array and arraylist
99. What do you mean by an exception?
100. Difference between error and exception
101. Explain how exceptions can be handled in Java
102. . Is it possible to keep other statements in between ‘try’, ‘catch’, and ‘finally’ blocks?
103. Will it be possible to only include a ‘try’ block without the ‘catch’ and ‘finally’ blocks?
104. Difference between final and finally
105. Types of exception
106. Is it possible to throw an exception manually? If yes, explain how.
107. Why do you use the ‘throws’ keyword in Java?
108. How would you differentiate between final, finally and finalize in Java?
109. Differentiate between throw, throws and throwable in Java.

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