

# Interview Question

## Core Java

1. OOps concept? Explain briefly with example.
2. JDK, JRE and JVM. Is java call by value or call by reference?
3. What is Class Loader?
4. What are access specifiers in java?
5. Difference between abstract class and interface?
6. What are the new features are there in Java 8?
7. Difference between Java 7 and Java 8?
8. Why string is immutable?
9. Difference between string, string buffer and string builder. When to use string, string buffer and string builder.
10. What is boxing and unboxing?
11. What is constant pool?
12. What are the types of memory in java?
13. What is static keyword and difference between static and non-static?
14. Difference between return and return value?
15. How many types of variables in java?
16. What is *var* type in java?
17. Difference between final, finally and finalize.
18. What is constructor? How to call parent class constructor in child class?
19. What is Constructor overloading and Constructor chaining?
20. What is default constructor?
21. What is Functional Interface in java? Can you inherit functional interface?
22. What is Lambdas Expression?
23. What is optional class in Java 8?
24. Why main method is Static?
25. What is Sam Interface?
26. What is marker interface? What are the marker interface are there in Java?
27. What is exception and how to handle exception in java? Exception hierarchy.
28. Different between exception and error?
29. Can we write try finally without catch?
30. Why to use finally block in try catch? Example.
31. Difference between throw, throws and throwable.
32. How to create custom exception? Write code.
33. Suppose there is three class and each class is independent with each other if exception occur in last class then how to handle it in first class?
34. Can you write multi catch block?
35. What is serialization? Why we use serialization?
36. What is transient keyword?
37. What is thread?
38. Explain thread life cycle. What is thread pool?
39. What is multithreading?
40. Difference between thread and process?
41. What is thread join?
42. Difference between wait and sleep.
43. Difference between wait, notify and notify all.

44. What is thread synchronization?
45. What is type casting and class casting?
46. Difference between .equals() method and ==.
47. What is aggregation, association and composition?
48. Garbage collection in java.
49. Output:  
Integer i = 127;  
Integer j = 127;  
System.out.println(i == j);

## Collection Framework

1. What is collection?
2. Difference between List and Map.
3. Difference between Array list and Linked list.
4. Difference between List and Set.
5. Difference between Array and Array List.
6. Difference between Vector and Array List.
7. Difference between Vector and Queue.
8. Difference between Hash Set and Linked Hash Set.
9. Difference between Hash Set and Hash Map.
10. Difference between Hash Map and Hash Table.
11. Difference between Hash Map and Linked Hash Map.
12. Difference between Hash Map and Concurrent Hash Map.
13. Difference between Tree Set and Tree Map.
14. Difference between Comparator and Comparable.
15. Difference between Iterator and Iterable.
16. Difference between Collection and Collections.
17. What is Collison?
18. What is Iterator?
19. How to iterate list?
20. How to iterate map?
21. What is Fail Safe Iterator and Fail Fast Iterator?
22. How to remove duplicate entries from an Array List using stream?
23. How to add only unique records in Array List?
24. What will happen if you don't override hashCode() method and equals() method?
25. How hash table works internally?
26. How to sort a collection? How many ways to sort a collection?
27. How to add a collection in another collection particular index?
28. How to compare two collection?

## Hibernate

1. What is Hibernate?
2. What is ORM?
3. What is HQL?
4. Difference between JPA and Hibernate?
5. Difference between JDBC and Hibernate?
6. What is JPA?
7. What is persistent in Hibernate?
8. What is session in Hibernate?

9. What is session factory?
10. What is session?
11. Difference between get() method and load() method.
12. What is lazy loading in Hibernate?
13. How many types of association mapping is there in Hibernate?
14. What are the key components are in Hibernate?
15. What is transaction in Hibernate?

## Advanced Java/ J2EE

1. Write down the code for JDBC.
  2. Difference between doGet() and doPost() method.
  3. Explain Servlet life cycle.
  4. What is session in servlet?
  5. What is request dispatcher?
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6. What are the features available in Spring Boot?
  7. What is spring initializer?
  8. Difference between spring and spring boot.
  9. What is spring IOC container?
  10. Explain bean life cycle.
  11. What are those spring starter available in spring boot?
  12. What do you mean by Dependency Injection?
  13. What is bean factory?
  14. Bean scope?
  15. What all annotations you know in spring boot?
  16. What is spring MVC?
  17. What is spring profile?
  18. What is spring security?
  19. What is application.property file in spring boot?
  20. What is spring actuator?
  21. How to connect spring boot with the database?
  22. Difference between @Controller and @RestController.
  23. How to use two database in spring boot?
  24. What is web services? Types of web services?
  25. Difference between Monolithic and Micro services?
  26. How you tested web services? Tool you used.
  27. What is idempotent?
  28. Status codes 201, 501, 500, 203, and 404.
  29. What is PACT and OAUTH?
  30. What is post man?
  31. What all HTTP method you used in your project?
  32. How to expose web service and consume web service.
  33. How to send email and write code? Which dependency you added for this?
  34. What all micro services you know?
  35. How you managed you codes or How to share your codes with seniors?
  36. Which design pattern you follow in your project?
  37. What all configuration you have done in your project?
  38. Explain project flow.