**Java questions**

1. What is hash map?
2. How is it different than map?
3. What is the time complexity in both map and hash map?
4. What is difference between table and hash map?
5. How are values stored (internally) in table and map?
6. What is String in java?
7. What is string immutable in java?
8. What datatype will be used to store to use password? Whether string is fine to use or not or any other datatype?
9. What designed patterns you used so far?
10. Can you write a threadsafe optimized singleton class?
11. Can a singleton class be inherited?
12. How will I allow to instance only one instance of a base class?
13. Is serialization of singleton class possible?
14. Can we serialize singleton object without doing anything extra?
15. When serialization is required or when should it do?
16. mention functionalities worked in Spring boot
17. explain your current project
18. which web server you are using
19. what format do you send the data
20. difference between http 1.0 and http 2.0
21. rate yourself in java and spring
22. @auto-wired - what does it mean
23. in your project - is it multi-threaded or single thread
24. what containers are you using?
25. how does concurrent hash map work?
26. does hash map maintain multiple copies of data when reading?
27. if we are taking clone, how does it get latest data?since clone is not current?
28. java is pass by value or pass by reference?
29. what design patterns have you worked?
30. can singleton be shared across multiple processes?
31. Explain current project
32. Write a thread safe singleton class. Candidate was unable to make it synchronize.
33. What is advantage using springboot?
34. What are the container class?
35. What are rest api?
36. What is lamda expression?
37. Write a lamda expression that takes two arguments and return a value?
38. Write a small program for binary search
39. Suppose we have student id and student name, and we also have course id and course name, write a query to find the number of students enrolled in each courses.
40. diff between put and patch.
41. explain REST architecture.
42. what are filters and interceptors.
43. program for immutable class.
44. program for Fibonacci series using recursion.
45. program for duplicate using java8
46. query to find second heights salary.
47. hibernate basics
48. action listeners in JPA.
49. which diff authentication you worked upon.(SAML,SSO).
50. what is optional class.
51. program for string manipulation using java8.