**Interview Questions**

1. **ThinkBridge (Technical)**
2. **Have you used Reactjs? What is Reactjs? What advantages does it provide over the conventional method of creating web-apps?**
3. **Take me through your project (the flow of project).**
4. **How can we reset the form after submitting data?**
5. **How is the data carried from client side to server side in your project (while referring the code).**
6. **What are hooks? What are the different hooks you used in your project? Why did you use those particular hooks?**
7. **What does useEffect() do. Different component life cycles in functional and class component.**
8. **Difference between functional and class component.**
9. **What was the logic you used while creating the dashboard. What is conditional rendering / logical AND short-circuiting.**
10. **How can you avoid the components from appending one after the other.**
11. **If not JWT what method did you use for providing security and protected routing.**
12. **ThinkBridge (HR)**
13. **Introduce yourself?**
14. **Why IT?**
15. **Puzzle.**
16. **Background info.**
17. **ProtoTech**
18. **What do you know about C#. What is .net?**
19. **Write a string reversal code in C#.**
20. **What are events and delegates?**
21. **Write a C# class.**
22. **Explain boxing unboxing.**
23. **double d = 2.345569;**

**int i = d;**

**Console.WriteLine( i );**

**What will be the output? Will it be typecasted or will it throw error? If yes, what error will it show?**

1. **Late binding vs early binding difference?**
2. **OOP concepts.**
3. **Diamond Problem.**
4. **Puzzle.**
5. **Prescient**
6. **Introduce yourself. Why did you want to switch to IT?**
7. **Reverse a string without using any inbuild string functions in C++. Not even length().**
8. **Give another approach for this question.**
9. **Write the same code in java or any other language.**
10. **Convert the for-loop code into while loop code.**
11. **Calculate the area of a cube when the length of the diagonal is given.**
12. **Geometry questions.**
13. **Puzzles**
14. **Koorier (Technical 1)**
15. **Agile methodologies.**
16. **SQL queries (inner querries)**
17. **What are HOF in JS. Explain the concept of closure in JS.**
18. **How can we call any API endpoint without creating a class component and function.**
19. **Difference between fetch then and async await.**
20. **Explain why and how JS is asynchronous language.**
21. **OOP concepts in java.**
22. **What is the parent class in java.**
23. **What is the concept of multi-threading in java. What is the class that you need to extend for creating threads in java.**
24. **Explain JVM.**
25. **What is race condition and deadlock condition.**
26. **Collection framework in java.**
27. **What annotations did you use in your model for project.**
28. **Explain relations in java and give analogy for the same in MySQL.**
29. **Explain Session and Session Factory.**
30. **What is L1 L2 caching.**
31. **What is JPQL. Give any example.**
32. **What is JPA Repository. How to write a custom querry in JPA.**
33. **How does the client-server model work.**
34. **What is Request Dispatcher.**
35. **Koorier (Technical 2)**
36. **How to reverse a LinkedList on place (Code, dry run and explanation).**
37. **Give another approach for the same (Logic).**
38. **How to balance parenthesis (code, logic and dry run).**
39. **What is BST.**
40. **Types of binary tress.**
41. **AVL balancing.**
42. **How to find a given value in a tree.**
43. **How to inverse a tree.**
44. **There are four point, all of them are inter connected with each other. How to travel from point A to D on the shortest distance.**
45. **Dijkstra’s algorithm and Brute force method for calculating shortest path.**