1. C# Interview Questions
2. What is C#?
3. What is the difference between static, public, and void?
4. What is the benefit of ‘using’ statement in C#?
5. Mention the features of C# briefly.
6. What are reference types and value types?
7. What is the difference between a Struct and a Class?
8. What is CLR and its purpose?
9. What is a namespace and its purpose?
10. What is enum in C#?
11. What is Jagged Arrays?
12. What is JIT Compiler?
13. What is garbage collection in C#?
14. What is Reflection in C#?
15. What is Managed or Unmanaged Code?
16. What are delegates in C#?
17. What is Boxing and Unboxing in C#?
18. What is an array in C#? its type and how do you declare and initialize an array?
19. Types of comments in c# (like single,multiple)
20. What is a control flow statement in C#? Explain its types.
21. What is the difference between if, else if, and else statements?
22. What is a switch statement? How does it differ from if-else? When should you use one over the other?
23. Explain the for loop in C#. How does it work? What are the three components of a for loop?
24. What is a while loop in C#? How does it differ from a do-while loop?
25. What is the purpose of the break and continue statements in loops?
26. Explain the difference between for, foreach, and while loops in C#. In which scenarios would you use each?
27. What is the difference between a return statement and a break statement in loops?
28. How does the length of an array work in C#? How can you access the elements in an array using a loop?
29. How do you resize an array in C#? Is it possible to change the size of an array once it's created?
30. What is the difference between static, public, and void?
31. Define Constructors.
32. Name all the C# access modifiers and explain it shortly
33. What’s the difference between an abstract and interface?
34. What is the difference between method overriding and method overloading?
35. What is Garbage Collection in C-sharp?
36. In C# Collections, how does the performance of a List compare to a LinkedList when it comes to insertion and deletion operations in the middle of the collection? Explain why.
37. Explain the differences and use cases between IEnumerable, ICollection, and IList interfaces in C# Collections.
38. Discuss the performance differences between Array, ArrayList, and List when it comes to adding, deleting, inserting, and looping through elements in C# Collections.
39. What is the difference between early binding and late binding in C# ?
40. Explain the difference between Error and Exception in C#?
41. 15. How many ways we can use try-catch and finally?
42. 16. What is the difference between System exceptions and Application exceptions?
43. What happens if the finally block throws an exception?
44. What is defensive programming?
45. What are the difference between array and arraylist?
46. Explain about try-catch implementation .
47. Explain different types of Exceptions in C#?
48. What are the difference between functions and Stored Procedures?
49. What is the difference between Drop, Delete and Truncate?
50. 19. What is Executenonquery?
51. 21. What is GroupBy? Explain with example.
52. 22. Difference between executenonquery, executescalar and executereader in C#?
53. 23. How does the ViewState mechanism work in ASP.NET Web Forms, and what is its significance in maintaining the state of controls across postbacks?
54. 24. Describe the Page Life Cycle in ASP.NET Web Forms. Mention the order and significance of the various events that occur during the entire lifecycle.
55. 25. In Web Forms, what are the implications of using synchronous vs. asynchronous postbacks?
56. 26. What is the role of the Global.asax file in an ASP.NET Web Forms application?
57. 27. What is DataSet in ADO.NET?
58. 28. What is a DataAdapter in ADO.NET?
59. 29. Explain the difference between ADO.NET and ASP.NET.
60. 30. Explain the difference between DataTable and DataSet and DataReader?