

1. Write a code for Extension method.

2. Why we use @ViewChild() and how we pass the boolean in ViewChild ()

3. print Sum of all Odd numbers from 1 to 10

4. Write the LINQ to get 2nd maximum number from an integer array ?

5. Given ,string[]= arr={"geek","for","geek"}. Print the word which occurred maximum time and also print it's frequency

6. Difference between IApplication and IWebHost

7. how do we do the healthcheck of application

8. Give output of below

```
let myPromise = new Promise(function(r, x) {  
  r("2");  
});
```

```
myPromise.then((data)=>console.log(data));
```

```
setTimeout(()=>console.log("3"),0)  
console.log("4");
```

9. Javascript give output of below

```
const outer = (argOuter) => {  
  const res = (argInner) => {  
    argOuter = argOuter+argInner;  
  }  
  const log = () => argOuter;  
  return {res,log};  
}  
const {res,log} = outer(1);  
res(2);  
res(3);  
res(4);
```

```
console.log(log());
```

10. Below code will work? What is the output if yes?

```
Class A {  
    some property  
}  
abstract Class B : Class A {  
}  
var obj = new Class B()
```

11. What is output of the below code. Explain how it works?

```
public class Green {  
    public void getColor() {  
        console.WriteLine("Green");  
    }  
}
```

```
public class Blue : Green {  
    public void getColor() {  
        console.WriteLine("Blue");  
    }  
}
```

```
public class Main{  
    public static void main(String[] args) {  
        Green green = new Blue();  
        green.getColor();  
    }  
}
```

====

12. Please identify set of statements that belongs to Method Override or Method Overload

private int add(int a, int b) //normal method

public void add(float a, int b) //method overload

private float sub(int a, float b)

private float sub (float a, float b)

private float add(int c, float a)

private float add(int c, float a)

13. Rewrite the below code that follows the below rule?

1. should not be initialized

2. should not be the predefined data type.

var a;

var b=6;

Int c;

c=a+b;

14. Average of first 100 numbers() in C# and SQL

15. select 8 from emp; -- will it work

16. Sql injection in .Net

17. Unite of work in .net

18. get the matching record from list "Geetha" using LINQ

19. Find the count of each characters in the list of array = {"fig", "date", "apple", "grape"}

output must be as below :-

Words with 3 characters: fig

Words with 4 characters: date

Words with 5 characters:

apple

grape

21.difference between ngif and ng-hide,ngfor in angular

22.difference between put and patch

23.reverse the string without array

24.How to achieve Statement in Angular?

25.API Status code

26.What are HTTP Verbs in webapi ? how to get the request and response of Post and Get method

27.How do u call the next middleware

28.How do u handle exception in .net core

29. What are filter and how its work , what is purpose of filters in .net core and .net mvc

30.What is promise in angular? Difference between observable and promise

31.What is use of Interface? When we use abstract and Interface ? how abstract is different from interface

32. SOLID principle and write the code snippet of each principle and explain.

33.Explain the how it violate the SOLID principle

34.What is dependency injection and do u achieve in .net core

35.Dependency injection in angular

36.What is Cache in .net core? Which Cache technique u used in ur application ? how its implemented?

37. Difference between Memory cache and IDistributed cache

38. What is value type and reference type ? why and how its used?(Boxing and unboxing)

39. What is string and stringbuilder? Why it is used and which memory allocation is use

40.What is CLR, CTS

41.What is garbage collection? Use of IDisposable and using statement? How we can manually achieve the garbage collection?

42. Difference between IDisposable and Finalized

43.How will you optimize the SQL query?

44. what is complex virtual table in SQL
45. Difference between let , const and var
46. Design patterns
47. use of AOT in angular
48. how to pass the data of one component to another component which is not interlinked.
49. How to do a custom validation in angular
50. how do u refer object in angular
51. How angular works? Why its call SPA? What is the entry point file of Angular?
52. How router works in angular?
53. Why we need promise in angular?
54. What are directives and components?
55. What are the templates available in Angular? Explain each
56. Write the LINQ to get 2nd maximum number from an integer array ?
57. print Sum of all Odd numbers from 1 to 10 c#
58. purpose of @ViewChild and how to pass boolean in ViewChild.
59. How do you pass the data from one component to another component.
60. how to do server level validation in MVC
61. how many ways to pass data from controller to views in mvc
62. how to write a object in type script? why we use abstraction in angular,
63. ACID in sql
64. Simplify the below code

```
if(a == null)
return null;
else if(a != null)
return a;
else if (a > 10)
return "Exceeded";
```

65. Re-write the below code in correct way

```

public async void Method1()
{
    //Logic

    await Method2()

    await Method3()

    await Method4()

    //Execute Logic after Method 2, 3 & 4
    completed
}

```

66. Explain and Give example of each lifecycle scope that we can use in our project in .net core
67. LINQ left ,right and groupjoin code
68. find the average of number till 100 in C# and also using LINQ and sql
69. How to write a unite test In angular
70. What is Angular interceptor? Why and where we used and its purpose?
71. What is Lazyloading in Angular? How its can be achieved?
72. What is AuthGurad? what is the purpose and how we implement it?
- 73.What is authentication how its can be implement in .net core?
- 74.What is Etag in .net core
75. What is Lazyloading,Eager loading and modle loading in .Net core? How it can be achived?
76. How we write the versioning of API.
- 77.What is middleware how u call the other middleware? How u create the custom middle ware?
78. override exception in .net core
79. types of key in sql
80. Explain about generic with code example
- 81.difference between Task and Thread? Async and await? Parallelism and Concurrency?,Thread pool?
- 82.What is yield in .net core? Lock,Monitor,Semaphore,Mutex in .net core
83. Difference between Enumerable and List
84. what is mutable and immutable
85. Explain complete Thread Concept full
- 86.Explain Multithreading

87. What is Callback delegates ? what is the difference between Anonymous Method and Lambda expression

88. await Task.WhenAll(task1, task2); what this will do?

89. If there is a 3 method of thread how can we know that all the thread completes its task execution ?

90. Explain Parallel.For, Parallel.ForEach, Task.WhenAll

91. Synchronized in Thread

92. IQueryable vs IEnumerable

93. expression trees in LINQ

94. what are the LINQ extension method

95. what is equivalent of LET key word in chained LINQ method execution

96. Remove the element from the list using LINQ

97. find the first 3 even number from the list using LINQ

98. Write a LINQ query to find the first 4 numbers that are greater than **50** from the list. List<int> numbers = new List<int> { 12, 34, 56, 78, 45, 89, 23, 67, 99, 101 };

99. write a LINQ query that groups the numbers into **Even** and **Odd** categories. Then, for each category, select only the first 2 numbers. List<int> numbers = new List<int> { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };

100. Write a LINQ query to calculate the average of all even numbers in the list. List<int> numbers = new List<int> { 10, 15, 20, 25, 30, 35, 40 };

101. Write a LINQ query to find the first number that is divisible by **7**. List<int> numbers = new List<int> { 15, 28, 33, 49, 56, 63, 72, 91 };

102. Write a LINQ query to remove all odd numbers from the list and return the updated list with only even numbers. List<int> numbers = new List<int> { 2, 3, 4, 5, 6, 7, 8, 9, 10 };

103. Write a LINQ query to check if there are any numbers greater than **100** in the list. The result should be a boolean value (true or false). List<int> numbers = new List<int> { 20, 45, 60, 120, 150, 200, 25 };

104. Find the Sum of the First 5 Numbers in the List List<int> numbers = new List<int> { 3, 6, 9, 12, 15, 18, 21, 24 };

105. Write a LINQ query to find the **maximum even number** in the list. List<int> numbers = new List<int> { 2, 5, 8, 3, 6, 12, 7, 9, 4 };

106. Write a LINQ query to count how many numbers in the list are divisible by **3**. List<int> numbers = new List<int> { 3, 6, 9, 15, 18, 25, 30, 33 };

107. Write a LINQ query to get all prime numbers from the list. You may need to implement a helper method to check for primality. List<int> numbers = new List<int> { 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 17 };

108. What is public,internal,protected,protected internal, private Access specifier
- 109.Transaction in SQL
110. Explain Rollback and commit in SQL how you implement and use for? How you handle the error in SQL
- 111.Userdefined Function in SQL
- 112.CTE in SQL, Views in SQL,INDEX in SQL,LOCK in SQL
- 113.Difference between SP and Function. Views and Functions in SQL
- 114,How do u retrieve the last row from the table from SP in SQL
- 115.What is magic table in SQL
- 116.Type of constrain in SQL
- 117.Normalization in SQL
- 118.IN and OUT in SQL.
- 119.Difference between ROW\_NUMBER(),DENSE\_RANK() and RANK in SQL.
120. Dynamic SQL
121. @@RAISERROR and @@ERROR in SQL
122. Write a query to find the second highest salary in a table.
123. when application complies, system generates .exe or .dll file?
124. What is Assembly in .net
125. difference between .Net framework and .Netcore framework
- 126.What is visualization in Docker? How docker will work?
127. How you write and consume the Web API?
128. API intergration in .net?
- 129.Why unite test framework are u using in ur Application?Write the sample unite testing code to any method.
- 130.Write the Extention method in .net
131. What is Dapper ? why its use and purpose
132. Which OMR tool are you using your application?
133. can we write query directly in EF? Can we write a query directly in Dapper?
134. write a LINQ query to display top 2second salary
135. RestApi vs web services in .net
- 136.what is state management in .net core?
137. How Microservice is different from Monolithical application



- 138. pipes angular
- 139. if there is a request from the client side how it will work in the server level in .net core
- 140. cookies and session management in .net core or in .net
- 141. when u use Sessionstorage,localstorage and session in .net
- 142.What is Stateless in .net core
- 143. types of session
- how to handle authentication in .Net core
- 144. difference between Dapper vs Entityframe work ORM
- 145. give one method example of RestApi in dotnet
- 146.First and FirstOrDefault in LINQ
- 147. how we pass the data in post and get in web api
- 148. what is RequestDelegate?
- 149. REF vs OUT, VAR vs DYNAMIC , Read vs CONST,
- 150.What are the ways to pass the form data in MVC
- 151. How do u pass the data from Controller to view
- 152.Explain .Net Architecture
- 153. difference between list VS Hashtable and HasTable VS HashSet
- 153. Write a query to find all non-unique (duplicate) names in the Name column of the Emp table.
- 154. Cluster index is mandatory or we can also use without Cluster index? How to write a Non-Cluster index? difference between Cluster and non cluster index? if cluster index is faster why non cluster index is needed? how it find the row locator?
- 155. Difference between Union and Union All in sql? and convert one datatype to another in sql
- 156. ConfigureServices and Configure method difference in .net? app.run() VS app.Use()
- 157. CSRF in web api .net 6.0,? difference between .ToString() and Convert.ToString() in c#
- 158. Application domain, General directive in .net. and What is Application Pool?
- 159. SQL query in a real time example where we need to use self join? DML VS DDL? DELETE VS TRUNCATE
- 160. Data Retrieval In case of Hashtable the data retrieval is slower due to boxing and unBoxing as compared to that in Dictionary. how this will be happening conversion?
- 161. Auto mapper in .Net core and Why repository design pattern is used and its purpose? Dependency injection in .net core
- 162. difference between Middleware and Filters in MVC.
- 163. why do we use partial class? Different way to return partial view?

164. DataSet vs DataReader

165. Purpose of Webpack in Angular? Dependency Injection in Angular

166. How to get the db connection for different Stages. ?Purpose of Launchsettings