

FRONTEND TOPICS 1:

1. HTML: Basic HTML tags and their attributes: [HTML Reference \(w3schools.com\)](https://www.w3schools.com/html/)

```
<!DOCTYPE>  
<html>  
<head>  
<title>  
<body>  
<h1> to <h6>  
<p>  
<br>  
<hr>  
<!--...-->
```

2. CSS: First 5 topics: [CSS Tutorial \(w3schools.com\)](https://www.w3schools.com/css/)

```
CSS HOME  
CSS Introduction  
CSS Syntax  
CSS Selectors  
CSS How To  
CSS Comments
```

3. JavaScript: Array Methods and Properties: [JavaScript Array Reference \(w3schools.com\)](https://www.w3schools.com/js/js_arrays.asp)

```
JS Arrays  
JS Array Methods  
JS Array Sort  
JS Array Iteration  
JS Array Const
```

```
at()  
concat()  
constructor  
copyWithin()  
entries()  
every()  
fill()  
filter()  
find()  
findIndex()  
flat()  
flatMap()  
forEach()  
from()  
includes()  
indexOf()  
isArray()
```

join()
keys()
lastIndexOf()
length
map()
pop()
prototype
push()
reduce()
reduceRight()
reverse()
shift()
slice()
some()
sort()
splice()
toString()
unshift()
valueOf()

SELF EVALUATION 1:

- Q1. Create a basic HTML document. (All basic tags along with required attributes, also mention the tags that goes in head element).
- Q2. Mention 3 ways of styling a document, along with cascading order (mention priority using comments).
- Q3. Explain CSS selectors: simple, combinator, pseudo-class(links/form/table), pseudo-elements and attribute selectors.
- Q4. Mention ways to create an array, access and manipulate it. How to recognise if a variable is an array?
- Q5. Find the size of an array, access the first and last element of array and add new element using appropriate array property.
- Q6. Mention different methods to add new element to an array.
- Q7. Mention different methods to delete element from an array.
- Q8. Mention iteration methods that loop through every elements in an array along with their return value.
- Q9. Mention methods that return index(es) of array element(s).
- Q10. Mention methods used to check if element is present in array along with their return value.
- Q11. Mention methods used to access last element, part of array along with their return value.

Q12. Mention methods used to combine arrays.

Q13. Sort a number array, array of objects based on string value (eg: [{name: 'Zayn', age: 23 }, {name: 'Ana', age: 35 },...]) and reverse it.

Q14. In array: [1, 2, [3, 4], [5, [6, 7]]], mention methods used to get following output: [1, 2, 3, 4, 5, 6, 7].

Q15. In array: [1, 2, 3, 4, 5], mention method to replace the last element with the first element.

Q16. In array: ["It's a sunny day", "I want ice-cream"] using appropriate method get this output: ["it's", "a", "sunny", "day", "I", "want", "ice-cream"] (Hint: "A boy".split(" ") => ["a", "boy"])

Q.17 Use appropriate methods to convert string to array and vice versa.

Note: Implement all the above questions with proper comments, you can console log to show the result. Also, make use of different types of arrays(number/string arrays /array of object).