

```

1  /***** 07_ARRAYS *****/
2
3
4  /**
5   * --> Two Ways To Create Arrays
6   */
7  const numbers = [43, 56, 33, 23, 36, 5];
8  const numbers2 = new Array(22,45,464,5,5,6);
9  const names = ['Abhishek', 'Dylan', 'Bittu'];
10 const mixed = [22, 'Hello', true, undefined, null, {a:1, b:2}, new Date()];
11
12
13 /**
14  * Get Array Length
15  */
16 console.log(numbers.length);
17
18 /**
19  * Check if is Array
20  */
21 console.log(Array.isArray(numbers));
22
23 /**
24  * Get Single Value - Indexing
25  * --> Indexing is 'ZERO' Based
26  */
27 console.log(names[2]);
28
29 /**
30  * Insert into array
31  */
32 names[1] = 'Joker';
33 console.log(names);
34
35 /**
36  * indexOf()
37  */
38 console.log(numbers.indexOf(36));
39
40 /**
41  * Mutating Arrays
42  * push() - Add item at the last position.
43  * unshift() - Add item at the first position.
44  * pop() - Remove Item from the end position.
45  * shift() - Remove Item from the front position
46  */
47 numbers.push(250);
48 console.log(numbers);
49 numbers.unshift(111);
50 console.log(numbers);
51 numbers.pop();
52 console.log(numbers);
53 numbers.shift();
54 console.log(numbers);
55
56 /**
57  * Splice Array
58  * --> splice()
59  */
60 numbers.splice(1, 3);

```

```
61 console.log(numbers);
62
63 /**
64  * Reverse Array
65  * --> reverse()
66  */
67 numbers.reverse();
68 console.log(numbers);
69
70 /**
71  * Concatenate array
72  */
73 const joined = names.concat(mixed);
74 console.log(joined);
75
76 /**
77  * Sorting Arrays
78  * --> sort()
79  */
80 sortedNames = names.sort();
81 console.log(sortedNames);
82
83 let num = [43, 56, 33, 23, 36, 5];
84 let sortedNum = num.sort();
85 console.log(sortedNum);
86 /**
87  * @GOTCHA
88  * sort() method sort numbers alphabetically, so provide comparator function
89  * to get ASCENDING OR DESCENDING order.
90  */
91 // ASCENDING
92 const sortedNumASC = num.sort(function(x, y) {
93     return x - y;
94 });
95 console.log(sortedNumASC);
96 // DESCENDING
97 const sortedNumDESC = num.sort(function(x, y) {
98     return y - x;
99 });
100 console.log(sortedNumDESC);
101
102 /**
103  * FIND IN ARRAY
104  * --> find()
105  */
106 const foundName = names.find(function(name) {
107     return name.toLowerCase() === 'abhishek';
108 });
109 console.log(foundName);
```