

3
→ Is Arrays → Special variable → holds more than one value

4
Syntax: const array_name = [item1, ..., itemN];

5
→ Spaces
→ ~~Special~~
→ Line Breaks } → Not Important

6
→ Create Array & provide elements

7
→ Access Array :: By Referring to the
Elements Index no.

```
const cars = [''];  
cars[0] = "Sat";  
cars[1] = "Val";  
cars[2] = "Makan";
```

8
→ Change Array element ✓ const cars = ["Sat", "Val", "Makan"];
Index no. cars[1] = "Val";

9
→ toString() → Convert Array to String of comma separated values.

MARCH 2020

Access Full Array By Referring to array name

Week 12 | 080-286

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Friday

Devining Array

Special Type of object ; typeof -> object ; Is Array

Array & objects

1) const person = ["John", "Doe", 25]; 2) Array (person) = "John"

3) const person = { first: "John", last: "Doe", age: 25 }; 4) use -> Number to access its elements

5) use -> names to access its members

6) Array can have Objects, Functions, Arrays

7) length property : Return the length of array

Array . foreach()

```

<script>
const fruits = ["Ban", "Orange", "Apple"];
let text = "<ul>";
fruits . foreach (fruit) ;
text + "</ul>";
document . getElementById ("demo") .innerHTML = text;
function fruit (value) {
    text += "<li>" + value + "</li>";
}
</script>

```

MARCH 2020

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

8) Add Array element 9) push()

10) Associative Array 11) Array with Named Indexes / Values

12) isArray()

13) Not supported

21

081-285 | Week 12

MARCH
2022

Saturday

1) toString

refer pg 25

2) join

Behaves like

joins all array elements into
String
join(separator)

3) pop

Remove last element
from array
Return value
Popped out

4) push

Add New Element
to array (at end)
Returns new array
length
push(element)

5) shift

Remove 1st array element
& shifts all other elements
to lower index
Returns value shifted
out

6) unshift

Add new element
to array (beginning) & shifts
older.
Return New Array
length
$$P, C, L \rightarrow SA, B, S$$

$$unshift(SA)$$

$$fruit[0] = SA$$

22 Sunday

7) concat

Create New Array
By Merge existing Array
can take any no
of array arguments

Array.concat
(Array)

MARCH
2020

40, 100, 1, 5, 25, 10 →
1, 5, 3, 14 → 1, 5 → 1, 5, 3

a=40 b=100 res=-60

Week 13 | 083-283

23

Monday

8) Sorts Sort Array Alphabetically

9) Reverse Reverse elements in array.

10) Numeric Sort By → function default

Sorts
↓
Values
↓
Strings
↓
So → Incorrect result

```
function(a,b){
  return a-b
}
```

4, 199, 33, 22, 20
a=4 b=199 res=-195
a=199 b=33 res=-
a=199 b=22

Fix → Compare Function

Array.sort()

40, 100, 1, 5, 25, 10

Return -ve
↓
depend on arguments

a-b → Ascending
b-a → Descending

a=40 b=100 res=-60
a=100 b=1 res=99

Array

If result
true → a is sorted before b
false → b is sorted before a
0 → No change done

```
Array.sort(
  function(a,b){
    return a-year-b-year
  })
```

With Sort order of 2 values

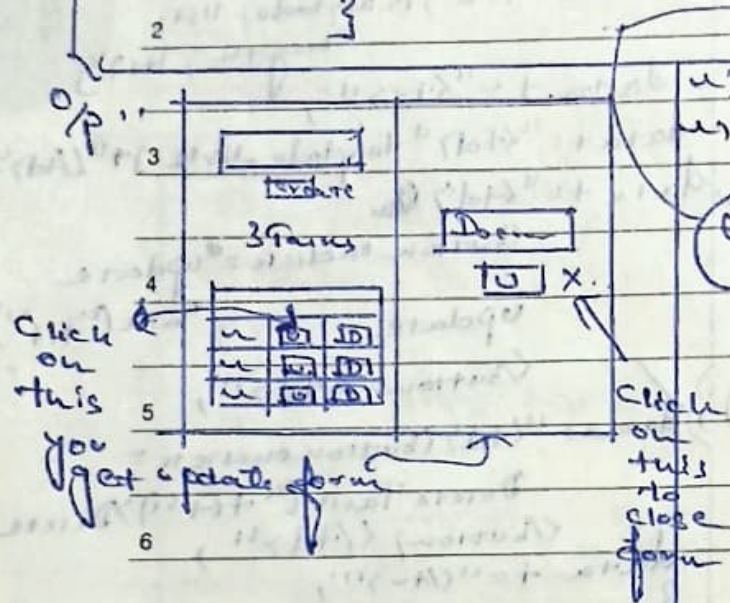
40 100 1 5 25 10

| MARCH | | | | | 2020 | |
|-------|----|----|----|----|------|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

11) Splice

pg no 219

| | 40 | 100 | 1 | 5 | 25 | 10 |
|-----|----|-----|-----|-----|-----|-----|
| 40 | X | -60 | 39 | 35 | 15 | 30 |
| 100 | | X | -99 | -95 | -85 | -90 |
| 1 | | | X | 4 | 24 | 9 |
| 5 | | | | X | 20 | 15 |
| 25 | | | | | X | 10 |
| 10 | | | | | | X |



1) Item. - item x or new elements added
 2) index or position to add/remove item.

eg. splice(2, 2) Remove item no. 2
 ↑
 Position

1) let a = [1, 2, 10, 3, 9]

a.splice(2, 1, 'no1', 'no2')

op: (6) [1, 2, 'no1', 'no2', 3, 9]

a.splice(2, 2, 'no1', 'no2')

op: (2) ['no1', 'no2']

[1, 2, 10, 9, 3] → [1, 2, 'Ad1', 'Ad2', 3]

fruits.splice(4) → []

fruits.splice(2, 2, 'Ad1', 'Ad2') → (2) [10, 9]

fruits.splice(1, 2, 'Ad1', 'Ad2', 3)

- ES6 feature
- 1) splice(, (pg. no 76))
 - 2) add &/or removes array element
 - 3) overwrites original array

Syntax: splice

array.splice(index, how many?, item, ...item)

1) how many 2) No of items removed