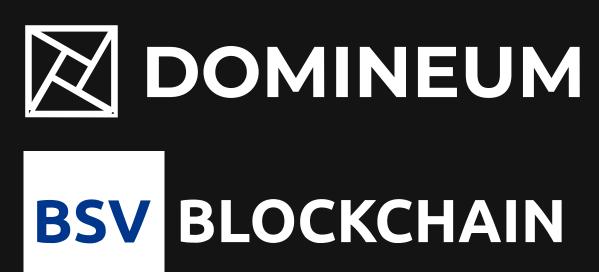




Introduction to JavaScript Part 2

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JavaScript Variable Practice

```
fruit = "orange";
myNum = "5";
otherNum = 20;
sumNum = otherNum + myNum;
                                        + sign does 2 things:
                                         Add

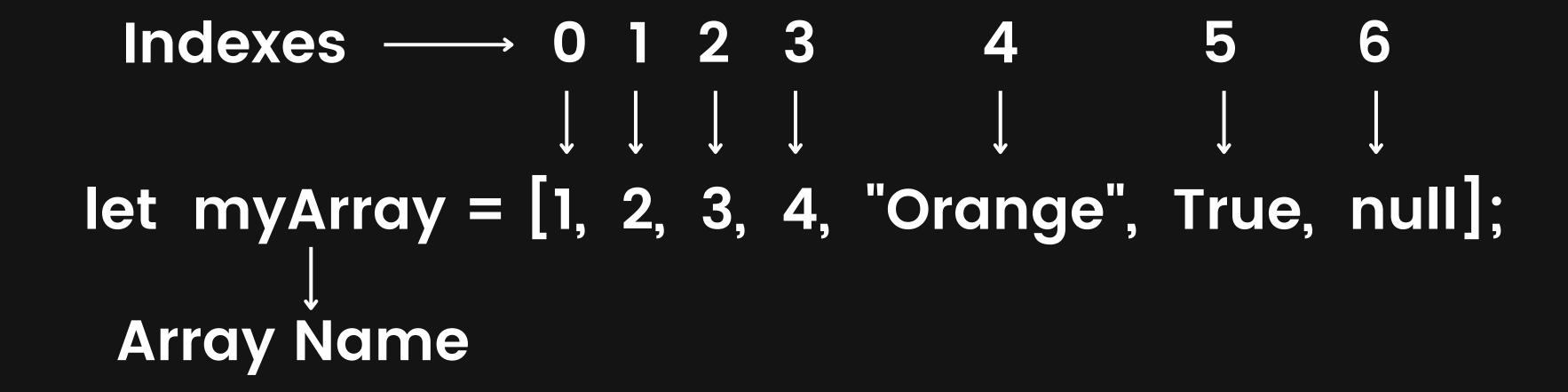
    Concatenate

JavaScript is loosely typed.
                                        typeof
It makes it more expressive
```

JavaScript Array

Array is a container with subcontainers

Stores multiple items under a single variable name



Creating an Array in JavaScript

There are 2 methods of creating array in Javascript

```
var fruits = new Array("orange", "mango", "apple");
```

```
var fruits = ["orange", "mango", "apple"];
```

Both produce the same result

JavaScript Array Practice

```
Elements
                  Console
                           Sources
                                   Network
       top ▼
                   Filter
> var fruits = new Array("orange", "mango", "apple");
undefined
> fruits
> fruits[0];
'orange'
> fruits[1];
'mango'
> fruits.length
♦ 3
```

JavaScript Array Practice You can put anything in an array

```
var vehicles = ["innosson", "massila", "toyota"];
var vehicles =
["innosson", ["ikenga", "fox", "umu"], "massila", ["elicpse", "pajero",
"I200"], "toyota", ["camry", "corolla", "venza"]];
console.log(vehicles[1][2]) --> You will get "umu"
```

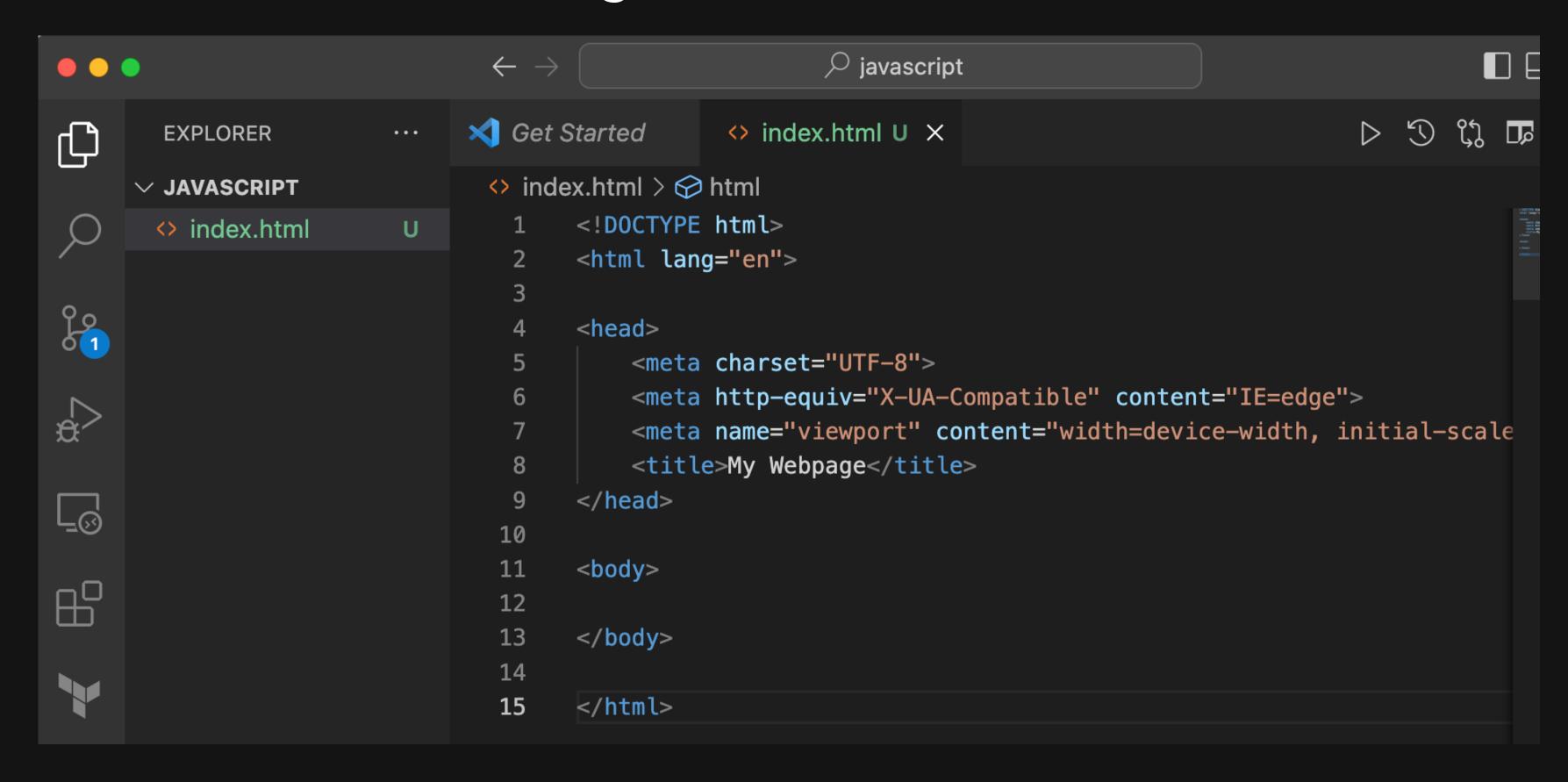
Array Methods

push - adds element(s) to an array
 pop - removes the last element from an array and return it
 splice - returns a shallow copy of a portion of an array
 sort - arranges items in ascending order
 length - returns the length of the array

Array Methods Practice

```
Network
      Elements
                             Performance
            Console
                 Sources
I O top ▼ O Filter
> const animals = ['ant', 'bison', 'camel', 'duck', 'elephant'];
undefined
> animals.slice(2,3);
> animals
> animals.push("goat")
♦ 6
> animals
> animals.pop()
'goat'
> animals
```

Working with Code Editor



Working with Code Editor

- Create files and directories from explorer
- install plugins: Atom
 One Light Theme

```
\leftarrow \rightarrow
                                                                                             Get Started
                                                # styles.css U
凸
        EXPLORER

∨ JAVAS... [‡ □ ひ □

    index.html >  html >  body >  script

                                     <!DOCTYPE html>
       > images
                                     <html lang="en">
       index.html
                         U
90
2
       # styles.css
                                     <head>
                                         <meta charset="UTF-8" />
                                         <meta http-equiv="X-UA-Compatible" content="IE=edge" />
Sign (
                                         <meta name="viewport" content="width=device-width, initial-scale</pre>
                                 8
                                         <title>My Webpage</title>
                                     </head>
                                10
                                11
                                     <body>
12
                                         <h1>My First Script</h1>
                                13
                                14
                                         <script>
15
                                             // add javascript to webpage
                                             var hello = "Good morning peers";
                                16
                                17
                                             console.log(hello);
←
                                18
                                         </script>
                                     </body>
                                19
                                20
. . .
                                     </html>
```

JavaScript Operators

+ addition

Subtraction

* Multiplication

Division

% Modulo (remainder after division)

JavaScript Operators

https://www.w3schools.com/js/js_operators.asp

+ addition

Subtraction

* Multiplication

Division

% Modulus (remainder after division)

Boolean in JavaScript

• True

- False
 - \circ 0
 - o null
 - undefined

```
Js test.js U X
Js test.js
       if (true) {
           // something happens here ...
       } else {
           // another thing happens here ..
```

Comparing Values

```
selection html >  html >  body >  script
 ~/programming/nitda-blockchain-scholarship/
 javascript/test.js · Untracked
 \mathbf{r}
           <script>
14
15
                var red = true;
16
                var blue = false;
17
                var green;
18
                var num = 5;
                var otherNum = 6;
19
                var notNum = "5"
20
21
                     // num == notNum (true) Type coercion
                     // num === notNum (false)
22
23
24
                if (num == otherNum) {
25
                     console.log("Statement is true");
                  else {
26
                     console.log("Statement is false");
27
28
29
           </script>
30
       </body>
```