00:44

What are
First Class Functions?
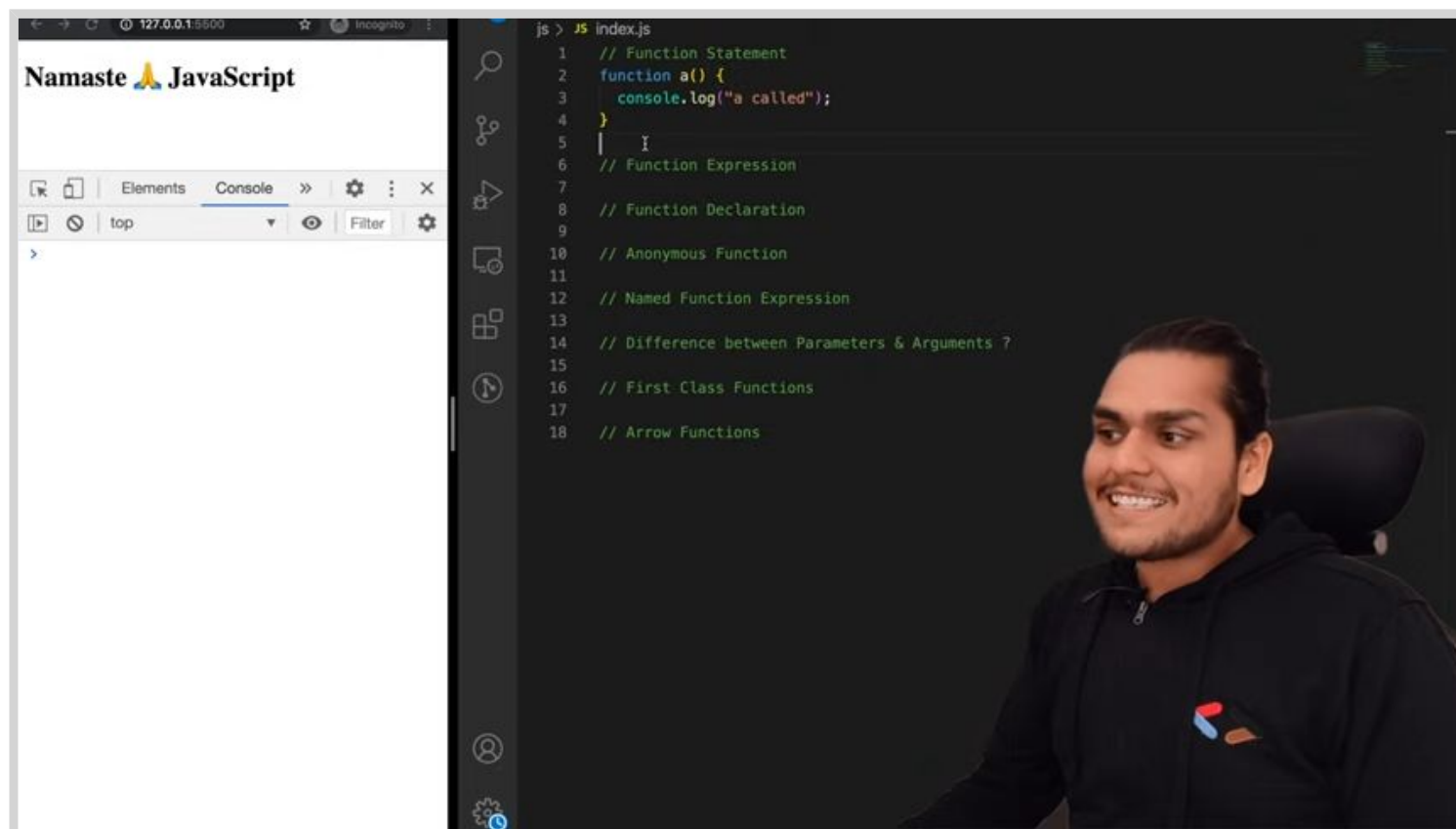
01:12

Function **Statement** vs.
Function **Expression** vs.
Function **Declaration** ?

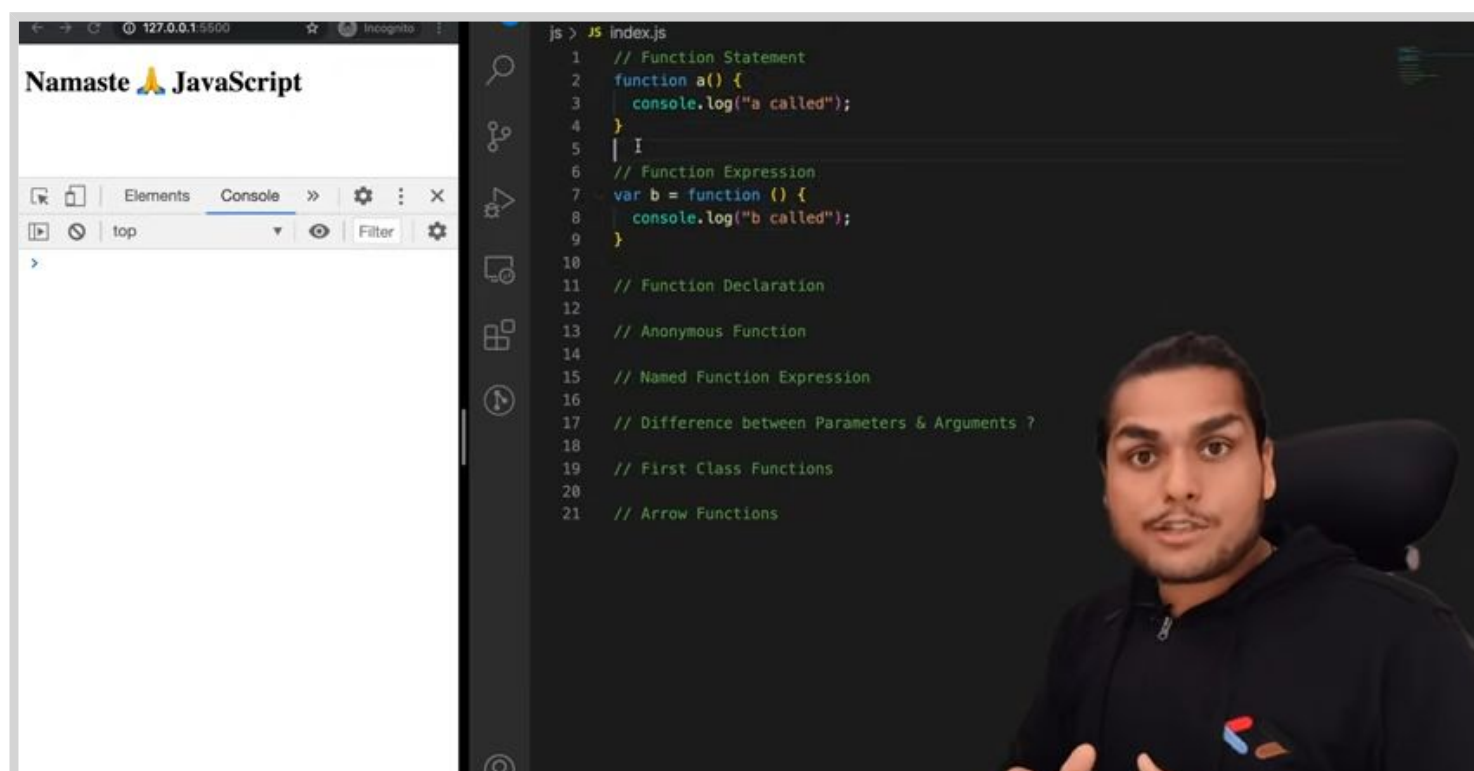function   statement:-

```js
js > JS index.js
1    // Function Statement
2    function a() {
3      console.log("a called");
4    }
5      |    I
6    // Function Expression
7
8    // Function Declaration
9
10   // Anonymous Function
11
12   // Named Function Expression
13
14   // Difference between Parameters & Arguments ?
15
16   // First Class Functions
17
18   // Arrow Functions
```
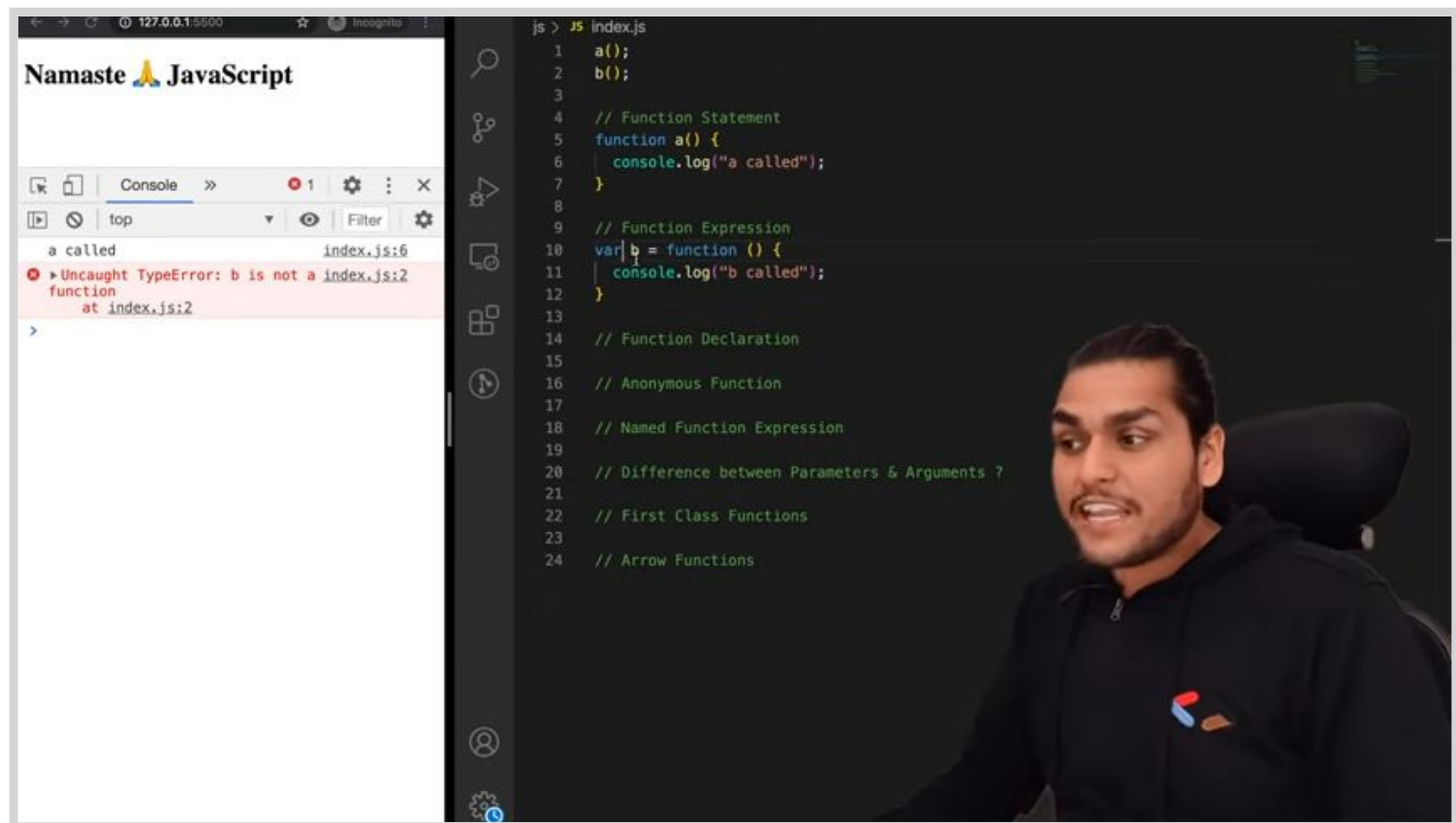
function   Expression:-

here, function   acts like a value

```js
js > JS index.js
1    // Function Statement
2    function a() {
3      console.log("a called");
4    }
5      |    I
6    // Function Expression
7    var b = function () {
8      console.log("b called");
9    }
10
11   // Function Declaration
12
13   // Anonymous Function
14
15   // Named Function Expression
16
17   // Difference between Parameters & Arguments ?
18
19   // First Class Functions
20
21   // Arrow Functions
```

The DIFFERENCE b/w "function statement" & "function Expression" is HOISTING.

05:44
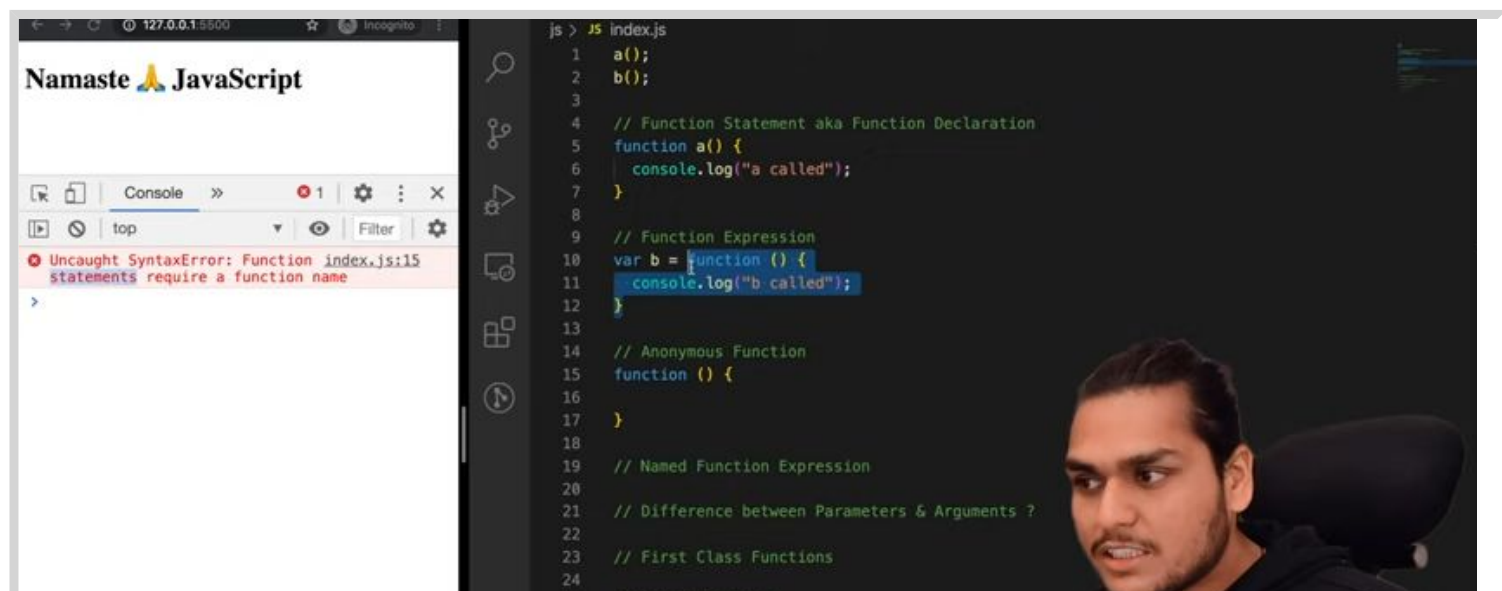
Any function without any name is called "Anonymous" function.

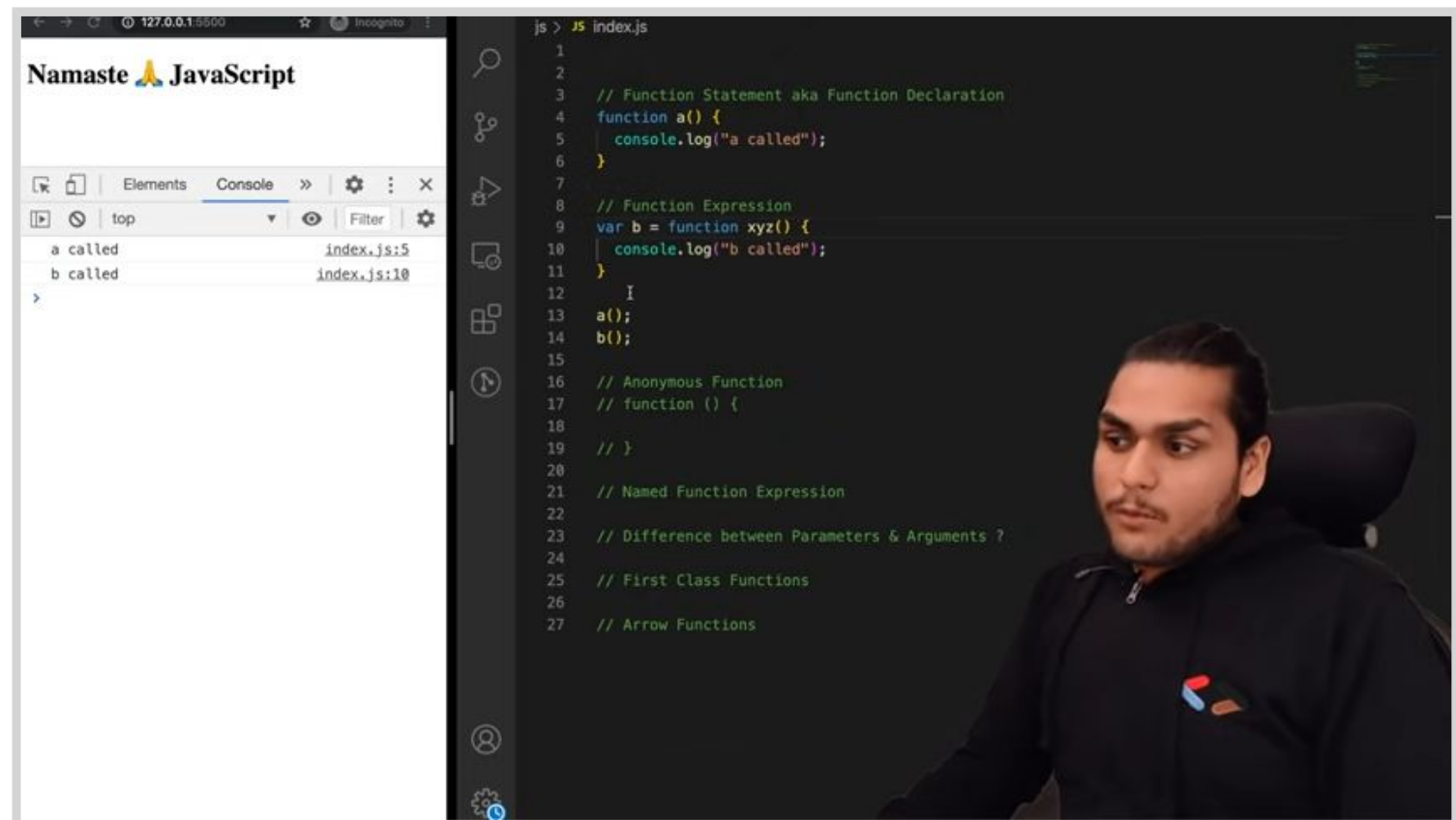• Anonymous functions are used where functions are used as "value".

08:21

named function expression

10:15


```js
js > JS index.js
 1
 2
 3    // Function Statement aka Function Declaration
 4    function a() {
 5        console.log("a called");
 6    }
 7
 8    // Function Expression
 9    var b = function xyz() {
10        console.log("b called");
11    }
12        I
13    a();
14    b();
15
16    // Anonymous Function
17    // function () {
18
19    // }
20
21    // Named Function Expression
22
23    // Difference between Parameters & Arguments ?
24
25    // First Class Functions
26
27    // Arrow Functions
```

Namaste JavaScript

a called   index.js:5
b called   index.js:10

first class function

14:52


```js
js > JS index.js
 1
 2
 3    // Function Statement aka Function Declaration
 4    function a() {
 5        console.log("a called");
 6    }
 7
 8    // Function Expression
 9    var b = function (param1) {
10        console.log(param1);
11    }
12
13    b(function (){
14
15    });
16
17    // Anonymous Function
18    // function () {
19
20    // }
21
22    // Named Function Expression
23
24    // Difference between Parameters & Arguments ?
25
26    // First Class Functions
27
```

Namaste JavaScript

f (){
}

```
28    // Arrow Functions
```

15:11


```js
1
2
3    // Function Statement aka Function Declaration
4    function a() {
5      console.log("a called");
6    }
7
8    // Function Expression
9    var b = function (param1) {
10     console.log(param1);
11   }
12
13   function xyz(){
14
15   }
16
17   b(xyz);
18
19   // Anonymous Function
20   // function () {
21
22   // }
23
24   // Named Function Expression
25
26   // Difference between Parameters & Arguments ?
27
28   // First Class Functions
29
30   // Arrow Functions
```
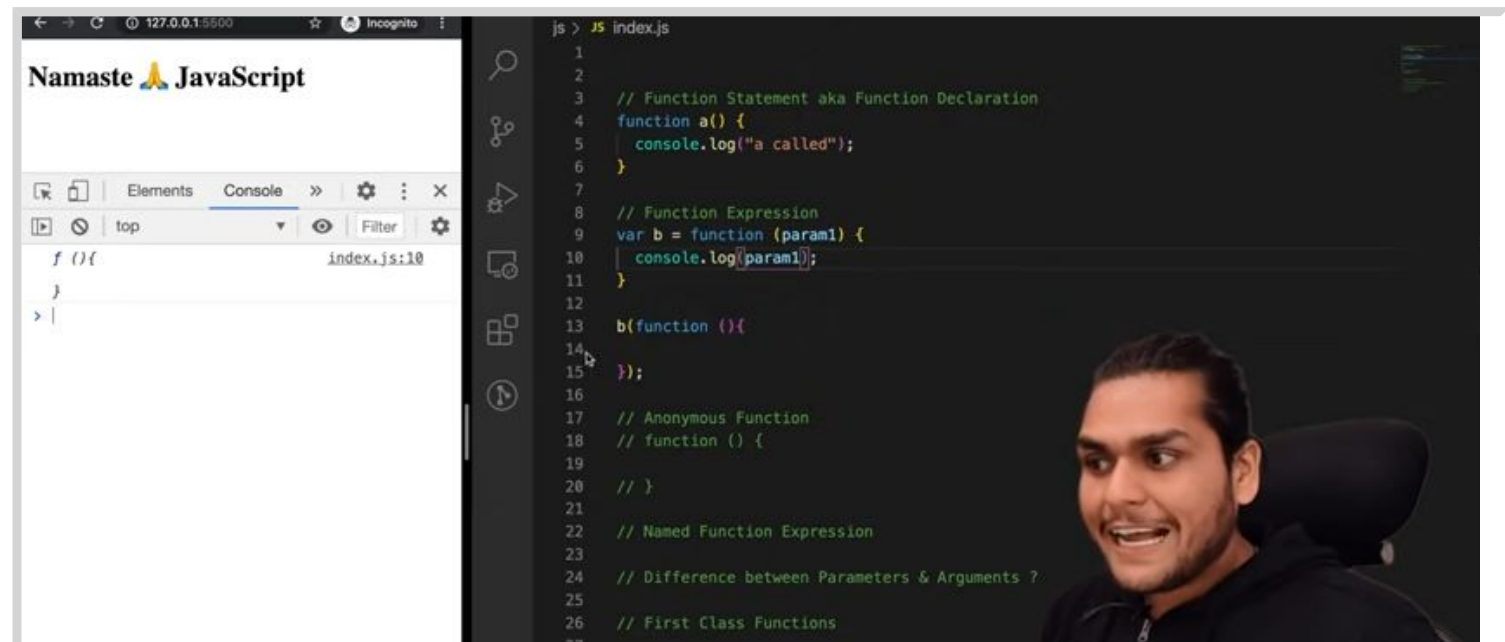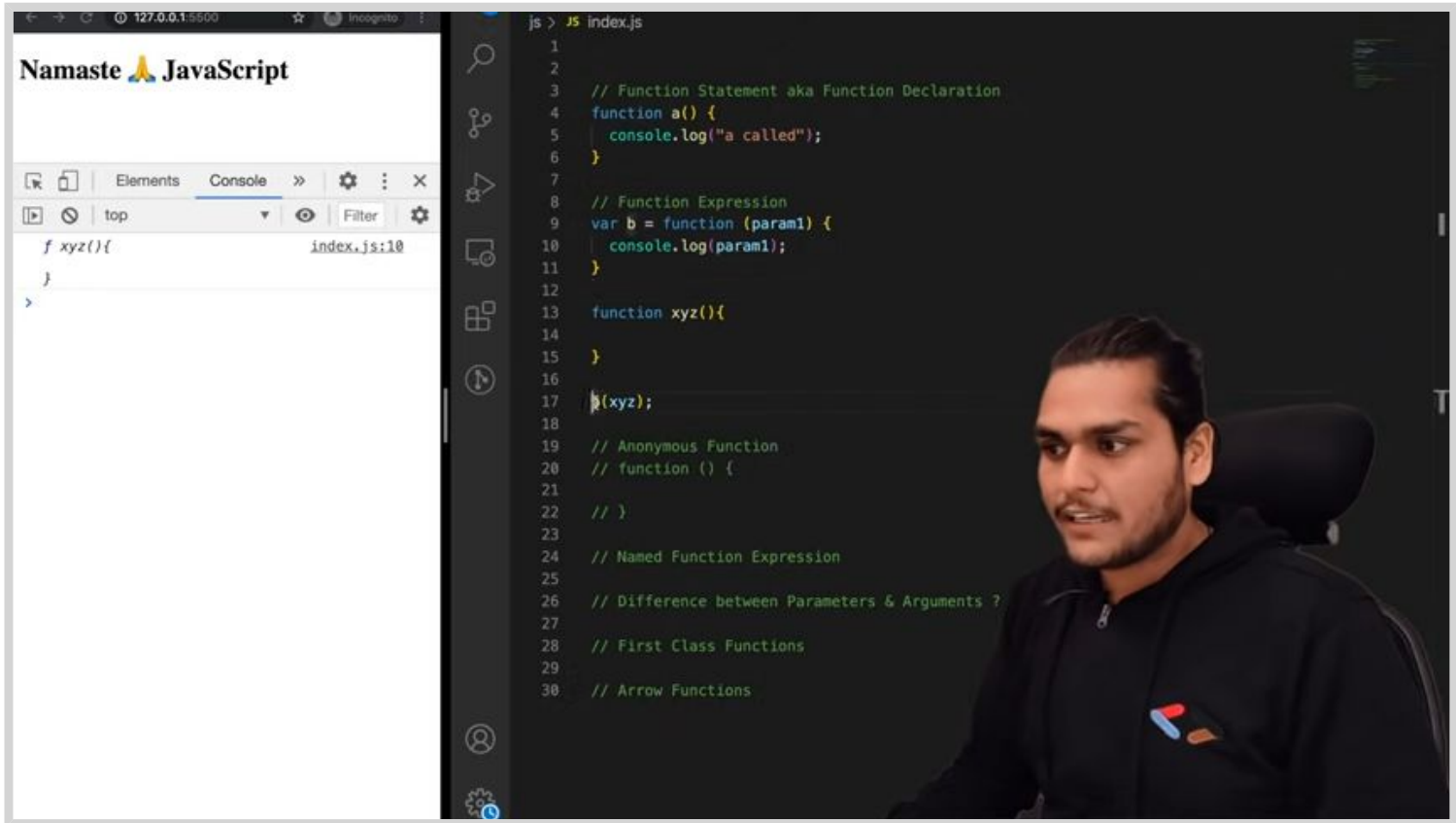
the ability to use functions as values and assigned it to a variable and can be passed as an argument to another function is known as **FIRST CLASS FUNCTIONS.**

-> functions are **"first class citizens".**

Arrow functions come up as a part of ES6(2015).