

מסלול Full Stack

קמפוס ת"א

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שם המרצה: דורון אזולאי



ברוכים הבאים



Lesson Agenda

- Load Js
- Variables
 - data types and use
- Conditions
- Function
- Common Commands
- Exercise
- Q&A

Load Javascript:

Three ways to load js:

Script - in head:

only in exceptional cases..!!

```
<head>
  <script>
    // JS Code Here
  </script>
</head>
```

External:

```
<body>
  <!-- html tags here -->
  <script src="script.js"></script>
</body>
```

Script - in body:

```
<body>
  <!-- html tags here -->
  <script>
    // JS Code Here
  </script>
</body>
```

Variables: data types

Create:

Boolean: `// true , false`

```
let isAbove18 = false
```

Number: `//all numbers`

```
let age = 15
```

```
let height = 1.75
```

```
let age = 15, height = 1.75; //short way
```

String: `//all characters`

```
let firstName = "doron"
```

```
let lastName = "azulay"
```

List: `//all types`

```
let fruits = ["apple", "banana", "melon"]
```

Object: `//all types`

```
let person = {  
  firstName: "doron",  
  lastName: "azulay"
```

```
}
```

Use:

```
isAbove18 = true
```

```
age = 15 + 10
```

```
age = age + 10
```

```
age += 10
```

```
height *= 2 //1.75 * 2
```

```
let fullName = firstName + lastName
```

```
console.log(fruits) // print the list
```

```
console.log(fruits[0]) // print first obj
```

```
fruits[0] = "orange" //set the value of the first  
obj
```

```
fruits.push("water-melon") //add obj to the list
```

```
console.log(fruits.pop()) //remove last obj
```

```
console.log(person.firstName)
```

```
person.firstName = "zoo"
```

```
person.lastName = "blop"
```

Conditions:

```
let age = 15
if(age > 18){
    console.log("yes you can drive..")
}
```

```
let age = 15
if(age <= 17){
    console.log("can't drive")
}
else{
    console.log("yes you can drive")
}
```

```
let age = 15
if(age == 10){
    console.log("you are to young..")
}
else if(age < 18){
    console.log("can't drive..")
}
else{
    console.log("yes you can drive..")
}
```

```
if(age < 18){
    document.getElementById("error").innerText = "can't drive"
}else{
    document.getElementById("success").innerText = "yes you can drive"
}
```

Loops:

```
let i = 0;
while(i < 10){
    console.log("while loop round:"+i)
    i++
}
```

```
for(let i = 0; i < 10; i++){
    console.log("for loop round:"+i)
}
```

Print Triangle:

```
let shap = ""
for(let i = 0; i < 5; i++){
    for(let j = 0; j <= i; j++){
        shap += "*"
    }
    shap += "\n"
}
console.log(shap)
```

Print list: one by one

```
let fruits = ["apple","banana","melon"]
for(let i = 0; i < fruits.length; i++){
    console.log(fruits[i])
}
```

functions:

level 1 - basic

```
function printFrom1To10() {  
    for(let i = 1; i <= 10; i++){  
        console.log(i)  
    }  
}
```

level 2 - with parameters

```
function printByRange(min, max) {  
    for(let i = min; i <= max; i++){  
        console.log(i)  
    }  
}
```

level 3 -

with parameters and return value

```
function addPrefixToString(text, prefix){  
    return prefix + text  
}
```


Common commands: element

more - https://www.w3schools.com/jsref/dom_obj_document.asp

```
console.log()           // print to the console
alert()                 // popup alert
document.getElementById("") // one element

document.getElementsByTagName("") // collection element
document.getElementsByClassName("") // collection elements
```

querySelector use: add prefix to: id: # , class: .

```
document.querySelector("") // one element
document.querySelectorAll("") // collection element
```

use examples:

```
document.getElementById("box") // element with id box
document.getElementsByTagName("h1") // collection elements with tag h1
document.getElementsByClassName("card") // collection elements with class card
document.querySelector("#box") // element with id box
document.querySelectorAll(".card") // collection elements with class card
document.querySelectorAll("div.card") // collection elements with tag div & class card
```



Common commands: element

more - https://www.w3schools.com/jsref/dom_obj_all.asp

```
document.getElementById("").id           // element id
document.getElementById("").style        // element style
document.getElementById("").innerHTML    // element Html code
document.getElementById("").innerText    // element text
```

use examples:

```
document.getElementById("box").id = "box1"    // set element id to box1
document.getElementById("h1").innerText = "hello" // set element text to hello
document.getElementById("h1").style.color = "red" // set element text color to red
document.getElementById("h1").style.backgroundColor = "blue" // set element background
                                                             // color to blue
```



In Class Exercise:

w3schools –

https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_variables1

JS Variables	✓
JS Operators	✓
JS Data Types	✓
JS Functions	✓
JS Objects	✓

Exercise:

- create folder – exercise6
- create one file
 - jsPractice.html

JS Practice Page

Create a page that displays

3 * h1 – with name “header – n”

3 * p – can use lorem

with javascript code

h1 – add background color and text color

p – border width dots and color

Q&A



