

2. Library ~~about~~ about

3. (2019)

JavaScript is a client side as well as server side scripting language that can be inserted into HTML pages.

- Enumerated the difference between JavaScript and Java?
- What are JavaScript data types?
- What is the use of isNaN function?
- It's possible to break J.S code into several lines? Give example.
- Define the operation

3. (2018)

HTML is the markup language that you surround content with to tell browser about heading, list, tables, etc.

a. What's the difference between margin and padding in CSS?

b. "555"

2. (2017)

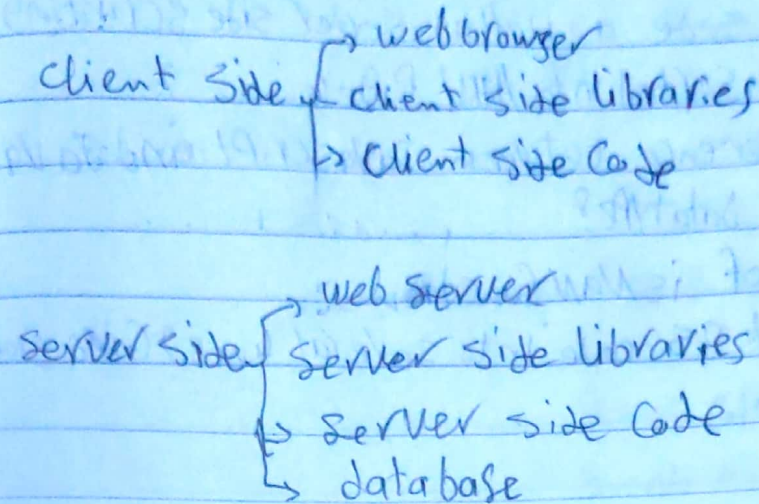
- What are advantages of JavaScript?
- What is the difference between JavaScript and JScript?
- What would be the output of the following statement?

```
var object1 = { same: 'same' };  
var object2 = { same: 'same' };  
console.log(object1 == object2);
```



## Ch 3 & 4 & 5

what is client & server layers



what is mean Stack

(- Mongo DB, Express, Angular, JS, Node.Js)

\* Some Codes from lecture 3 (16-51)

what is the difference between HTML and SVG?

SVG is a graphics approach and has few libraries

HTML is a text approach and has many libraries

What is JavaScript

JavaScript is a dynamic computer programming language  
JavaScript Specs.

- JS is lightweight, interpreted programming language.
- Designed for creating network-centric APPs
- Complementary to and integrated with Java & HTML
- Open and cross platform



What is JavaScript advantage and disadvantages? (2017)

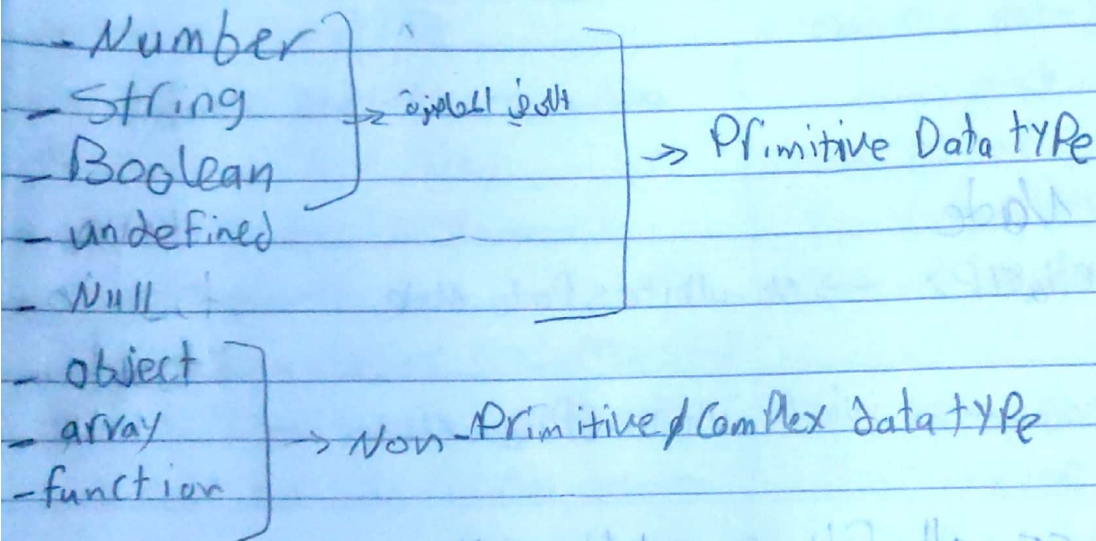
### Advantages

- Run fast
- Platform independent
- Easy to learn
- Increased interactivity
- Richer interface

### Disadvantages

- Run on single thread
- Read/write files on client side
- Networking applications
- Code is not hidden.

### JavaScript data types (2019)



\* For all J.S Functions & array... etc lecture 4 (8-55)

What is use of isNaN() function? (2019)

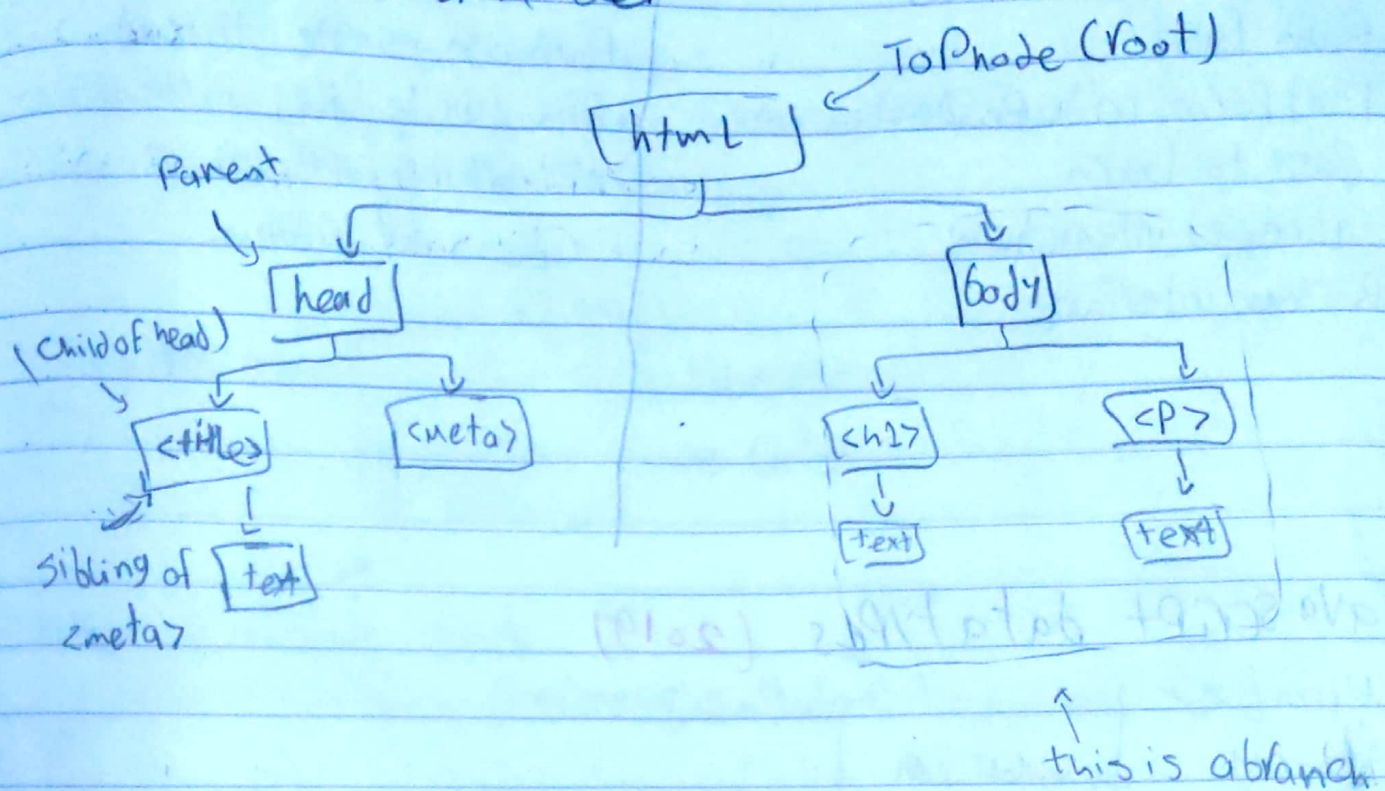
Returns true if the input is Not a number and false if input is number.

isNaN(22.9) → false

isNaN("CS") → true



What is DOM  
Document Object Model.



White space Node

`<body><p>Hello</p>` → No white space Node

`<body>`

`<p> Hello</p>` → with white space Node

Code to access all of those relationships

- Parent Node

- Child Nodes `childNodes`, first child, last child.

- Previous Sibling, next Sibling.

Continue from (13-36)



what is the difference between setTimeout() and setInterval()

### setTimeout()

var timer = setTimeout(doSomething, 1000);  
doSomething() will be executed  
1 second later.

### setInterval()

var timer = setInterval(doSomething, 2000);  
doSomething() will be executed  
every 2 seconds;

Enumerate the difference between Java and JavaScript (2019)

### Java

- Compiled language
- static datatype
- to write a program requires a Java development kit (SDK)
- object oriented programming
- is more secured
- support Java classes concurrency that allows to work with many threads and help maintain parallel concurrency in coding.

### JavaScript

- Interpreted language
- dynamic datatype
- to write a program it requires text editor
- scripting language.
- is less secured
- concurrency is based on the queue system "event loop" that support feature like async/await functions, in coding and Promises

Is it possible to break JavaScript code into several lines (2019)  
Yes, it is

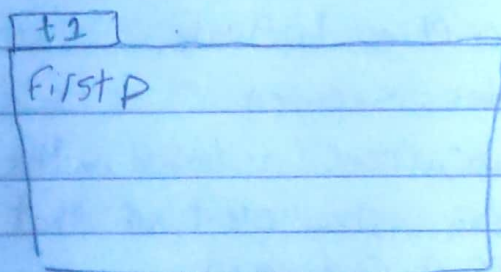
```
var abc = someFunction(value, arg, index)
var abc =
    someFunction(
        value,
        arg,
        index)
```



Define the operation and output of this code (2019)

```
<html>
<head>
<title>tl</title>
<script type="text/javascript">
  Function addNode() { var newP = document.createElement("p");
  var textNode = document.createTextNode("This is new text node");
  newP.appendChild(textNode);
  document.getElementById("firstP").appendChild(newP); }
</script> </head>
<body> <p id="firstP">firstP</p> </body>
</html>
```

The output



- This is the title of the page on web browser
- Function addNode() creates element (newP) of type Paragraph, then creates text node after that appends it as child of newP, finally newP appends to element "firstP", but this function not called anywhere.
- The body is Paragraph and it's "firstP"



Q2 (2018)

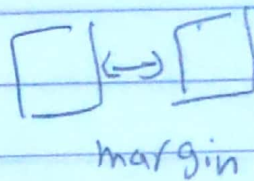
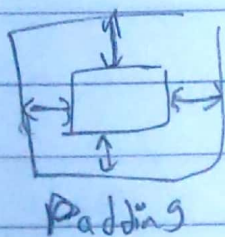
- 1) (b)
- 2) (d)
- 3) (b)
- 4) (a)
- 5) (c)
- 6) (d)

Q3) 2018

What's the difference between margin and padding?

margin is the space around the element

padding refers to the space between an element and the content inside it.



Q3) (2017)

6) What is the difference between Jscript and J.s

- Jscript is only working on Internet Explorer

JavaScript is working on all Browsers

c. what would be the output of the following

```
var object1 = {same: 'same'};  
var object2 = {same: 'same'};  
console.log(object1 === object2)
```

false