JAVASCRIPT

* Variable name can contain numbers ,digits and characters
* It can start with $ and \_
* It should start with a letter
* The names are case sensitive
* Keywords cannot be a variable name
* Name should be in camel case Eg: fullStack
* Variable name length should be 16
* Name should not contain any space
* Variables can be declared in 4 way,

Automatically; using var; using let; using const

* Always use const if the value should not be changed
* Always use const if the type should not be changed(arrays and object)
* Only use let, if you can’t use const
* Var is used in case of using a old browser

Const mySymbol=Symbol();

It is useful for creating APIs, when you want to assign a unique identifier to an object

typeof “ “

‘string’

typeof undefined

‘undefined’

typeof null

‘object’

Operators:

* Arithmetic operator: +,-,\*,/,%
* Relational operator: <,>,==,<=,>=,!=
* Logical operator: &&,||,!
* Bitwise operator: &,|,^,>>,<<,>>>,~

Type Operators:

* typeof operator-returns type of a variable
* instanceof operator-returns true if an object is at instance of an object type

Ternary Operator

Eg: 4<5?true:false

true

Arrays:

Arrays can be declared as,

* const cars=["BMW", "Audi", "tata"]

undefined

cars

(3) ['BMW', 'Audi', 'tata']

* const bts=[]

undefined

bts[1]="jin"

'jin'

bts[2]="suga"

'suga'

bts[3]="jhope"

'jhope'

bts[4]="Rm"

'Rm'

bts[5]="jimin"

'jimin'

bts[6]="V"

'V'

bts[7]="Jk"

'Jk'

* const cars=new Array("BMW", "Audi", "tata");

undefined

cars

(3) ['BMW', 'Audi', 'tata']

cars[2]="Benz"

'Benz'

cars

(3) ['BMW', 'Audi', 'Benz']

cars[3]="tata"

'tata'

cars

(4) ['BMW', 'Audi', 'Benz', 'tata']

Array to String conversion,

* cars.toString()

'BMW,Audi,Benz,tata'

1. age=18

if(age>=18)

console.log("eligible")

eligible

1. age=18

if(age>=18)

console.log("eligible")

else if(age>0)

console.log("not eligible")

else

console.log("-ve no")

eligible

1. switch(new Date().getDay()){  
   case 0:  
   console.log("saturday");  
   break;  
   case 1:  
   console.log("sunday");  
   break;  
   default:  
   console.log("looking for weekend");  
   }
2. let text=””;

for(let i=0;i<=5;i++){

text += i+” “ ;

}

MAPS:

* const map = new Map()

undefined

* map.set("EEE", 32)

Map(1) {'EEE' => 32}

* map.set("EIE",52)

Map(2) {'EEE' => 32, 'EIE' => 52}

* map.set("Civil", 72)

Map(3) {'EEE' => 32, 'EIE' => 52, 'Civil' => 72}

* map.set("EIE", 42)

Map(3) {'EEE' => 32, 'EIE' => 42, 'Civil' => 72}

* map.get("EIE")

42

* map.delete("Civil")

true

* map.delete("Civil")

false

* map.get("Civil")

undefined

* map.has("Civil")

false

* map.has("EIE")

true

* map.forEach(function(val,key) { console.log(val+" "+key); })

32 EEE

42 EIE

* for(const x of map.entries()){ text = text + x;}

'EEE,32EIE,42'

* const m = new Map([["mech", 1],["ft", 2],["bsc", 7]])

undefined

* m

Map(3) {'mech' => 1, 'ft' => 2, 'bsc' => 7}

* const m = new Set([["mech", 1],["ft", 2],["bsc", 7]])

undefined

* m

Set(3) {Array(2), Array(2), Array(2)}

* const m = new Set(["mech", 1,5,0])

undefined

* m

Set(4) {'mech', 1, 5, 0}

* const m = new Set(["mech", 1],["ft", 2],["bsc", 7])

undefined

* m

Set(2) {'mech', 1}

* const set = new Set()

undefined

* set

Set(0) {size: 0}

* set.add("X")

Set(1) {'X'}

* set.add("Y")

Set(2) {'X', 'Y'}

* set.add("Z")

Set(3) {'X', 'Y', 'Z'}

* set.add("X")

Set(3) {'X', 'Y', 'Z'}

* set.delete("X")

true

* set.has("X")

false

* set.forEach(function(val){ console.log(val); })

Y

Z

undefined

* for(const y of set.entries()){ console.log(y); }

(2) ['Y', 'Y']

(2) ['Z', 'Z']

Undefined

* set.size

2