JS - Data Types

Primitive DT

number, string, boolean, undefined, null, bigint, symbol

Non-Primitive

Object → JS Array or JS Object

We can find the datatype uisng typeof()

```
var brand = "Abhay"; //string
var size = 'S'; //string
var price = 327; //number
var rating = 7.8; //number
var availability = true; //boolean
var discount; //undefined

console.log(typeof brand) => string
console.log(typeof size) => string
console.log(typeof price) => number
console.log(typeof rating)
console.log(typeof availability)
console.log(typeof discount)
```

```
let status = null;
let id = Symbol("Employee_id");
```

```
const theBigInt = 723883482093487432098n;
```

```
let status = null;
let id = Symbol("Employee_id")
const theBigInt = 723883482093487432098n;

undefined

typeof theBigInt

'bigint'

typeof id

'symbol'

typeof st

'undefined'
```

Non-primitive type

```
object
object
string
```

```
> var size = 387,425,1453

Oncaught
SyntaxError: Unexpected number
>
```

JS - Array

- Collection / Group of values or elements as one entity
- · Heterogeneous and duplicate values are allowed
- Elements are stored based on indexing
- Negative indexing is not possible
- It is iterable object → for, while, do while, for (of)

Create

```
let arr = []
let arr2 = [10, 20, 30]
let arr3 = [10, 20.5, "Rahul", 'y', true, undefined]
```

Read

```
console.log(arr3[0]) // 10
console.log(arr3[1]) // 20.5
console.log(arr3[2]) // "Rahul"
console.log(arr3[3]) // 'y'
console.log(arr3[4]) // true
```

Create / Read / Update

```
> let enames = ["Rahul", "Sonia", "Priyanka"]

< undefined
> enames[0]

< 'Rahul'
> enames[10]

< undefined
> enames[0] = "Rahul Gandhi"

< 'Rahul Gandhi'</pre>
```

Delete

Iteration over JS - Array

For

```
> for (let i = 0; i < arr3.length; i++) {
        console.log(arr3[i] )
     }

10
20.5
Rahul

y
true
undefined</pre>
```

While

```
> let i = 0;
while (i < eid.length) {
    console.log(eid[i]);
    i++;
}

101

102

103

104

105</pre>
```

do-while

```
> let i = 0;
do {
    console.log(eid[i]);
    i++;
} while (i < eid.length);

101

102

103

104

105</pre>
```

For-of

```
> for (const elem of eid) {
    console.log(elem);
}

101

102

103

104

105
```

JS - Objects

- Group of key-value pairs as one entity
- Group of properties (property name values) as one entity
- Duplicate keys are not allowed

```
> let pname = {
    id: 101,
    name: "Rahul",
    name: "RGV"
}

<understand</pre>
vundefined
> pname

(* id: 101, name: 'RGV')
```

- Indexing concept is not allowed
- · Objects are not iterable

Create

Read

```
> emp.id
< 1101
> emp.name
< 'Rahul'
> emp.sal
< 45000
> emp.loc
< undefined</pre>
```

Update

Delete