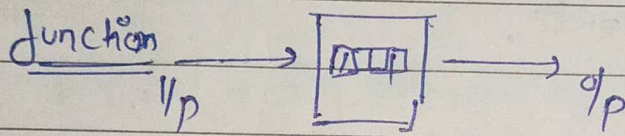


20/Nov/2021

functions / Arrays / Objects

functions
functions



// function expects arguments

function add(a, b) {
 // parameters

 console.log(a+b)
} // function Declaration

// Call → add(5, 4)

// function invocation (Call)

function add(a, b) {

 return a+b;

}
let s = add(5, 4)
console.log(s);

// In JavaS. functions are known as

first class Citizens

you can treat functions as variables in JavaScript

```
let SayHi = function () {  
    console.log('Hi')  
} // anonymous function  
SayHi()
```

```
let SayHi = function (a) {  
    console.log(a)  
}  
SayHi(2)
```

parameters
argument.

IIFE

(Immediately invoked function expression)

```
let add = (function (a, b) {  
    console.log(a + b)  
})(10, 20)
```


Array

array.js

Page No.			
Date			

Array Creation

let arr = [] // array is initialized with square brackets.

let arr = [1, 2, 3, 4]
console.log(arr)

let arr = [1, 'Hello', 3, true] ✓ Valid (No error)

In JavaScript you can put any kind of data in the array.
Array is ordered collection.

Array Methods

let cars = ["BMW", "Jaguar", "Mercedes"]

① Replace an Element in an array :-

cars[1] = "Bentley"

② Add a New Element to an Array :-

cars[3] = 'Audi'
console.log(cars)

③ Length of an Array

console.log(cars.length)

④ Array Manipulation Methods :-

① pop() // It takes out element from the end of the array.

(1) pop()

```
let cars = ["BMW", "Jaguar", "Mercedes"]
```

```
let poppedCar = cars.pop()
```

```
console.log(poppedCar) → Mercedes
```

```
console.log(cars) → ["BMW", "Jaguar"]
```

(2) push() (It adds an element at the end of an Array)

```
cars.push('alto')
```

```
console.log(cars)
```

(3) shift() → It removes an element from the starting of the array.

```
let shiftedCar = cars.shift()
```

```
console.log(shiftedCar)
```

```
console.log(cars)
```

(4) unshift() → It adds the element from the starting.

```
cars.unshift('alto')
```

```
console.log(cars);
```


Objects.

Object.js

→ Key Value pair

To declare an object

```
let obj = {}
```

```
let obj = {  
  key    value
```

```
  firstName: 'Steve Rogers',
```

```
  lastName: 'Rogers',
```

```
  friends: ['Bucky', 'Tony Stark', 'Dr Banner']
```

```
  isAvenger: true,
```

```
  age: 150,
```

```
  address: {
```

```
    state: 'New York',
```

```
    city: 'Manhattan'
```

```
  },
```

```
  sayHi: function () {
```

```
    console.log('Hi')
```

```
  }
```

```
}
```

```
console.log(obj)
```


① Dot Notation

console.log (cap.first name) → Steve

② Bracket Notation

console.log (cap['age'])

console.log (cap.friends[1])

Now Call function

cap.sayHi() → Hi (o/p)

Update Objects

cap.isAvenger = 'false'

console.log (cap)

// Create something inside An object

cap.movies = ['first Avengers', 'Age of ulton', 'Endgame']
console.log (cap)

Delete Something Inside An object

delete cap.age

Special Loop → for in loop

for in loop (specifically used
for objects)

Page No.			
Date			

```
for (let key in cap) {
```

```
  console.log("Key", key, "Value", cap[key]value)
```

```
}
```