Date: 4-27-2020

Default parameters in Functions:

Definition: while defining the fucnts, few parameters are initialized to default values, That concept is called default parameters.

Introduced in ES6 version

Example 1:

Example 2: (Combination of Regular parameters, Default parameters)

What is Variable hoisting?

If we are calling regular parameter without defining value, then undefined will be assigned to that variable. This is called Variable hoisting.

Example 3: (combination of Regular parameters, Default Parameters , Rest Paramets)

Arrow Funcitons:

Introduced in ES6, represent using => symbol

Also called as Fat Arrow function / Anonymous function (function without name is called as anonymous function)

When to use Arrow Functions:

- Handle events (click, touch, mouse over etc...) and bind them (events)
- Application performance is better compared to regular function (Theoretically)
- Object creations for functions is NOT possible in Arrow Functions i.e
 Representation of Data is NOT possible
- If we want to read response from server Arrow functions are suggestible functions

Syntax:

Let variableName = (arguments ...) => {...Business Logic....}

Example

```
let var1 = () => {
    console.log("Hello World");
}
console.log(var1); //[Function: var1]
console.log(var1()); // Hello World
```

Date: 28-04-2020

Arrow functions recap

Example in usage of arrow functions in html (filename.html):

```
<!DOCTYPE html>
<html>
<head>
    <meta charset='utf-8'>
    <meta http-equiv='X-UA-Compatible' content='IE=edge'>
    <title>Arrow Functions</title>
    <script>
        let my_fun = () => {
            return "Hello World....!"
        console.log(my_fun); // will give function definition -- NOT Value
        console.log(my_fun()); // will give its value ( Business Logic )
    </script>
</head>
<body>
</body>
</html>
o/p:
fileName.html:16 () => {
      return "Hello World....!"
    }
fileName.html:17 Hello World....!
```

Nested Arrow Functions:

```
<script>
   let my_fun = () => {
      return () => {
```

```
return "Hello World....!"
            }
        }
        console.log(my_fun); // outer function definition
        console.log(my_fun()); // inner function definition
        console.log(my_fun()()); // inner function result...!
    </script>
O/p:
() => {
      return () => {
         return "Hello World....!"
      }
    }
defaultPar.html:16 () => {
        return "Hello World....!"
      }
defaultPar.html:17 Hello World....!
```

Arrow Functions with arguments:

```
<script>
    let my_fun = (arg1, arg2) => {
        console.log(arg1, arg2);
    }
    my_fun("ReactJs", "AngularJs");
    </script>

o/p:

ReactJs AngularJs
```

Arrow functions as arguments

```
<script>
        let asyncFun = (successResponse, errorResponse) => {
            console.log(successResponse); // Returns function definition
            console.log(successResponse()); // Return function output
            console.log(errorResponse); // Returns function definition
            console.log(errorResponse()); // Returns function output
        }
        asyncFun(
                () => {
                    return "Success Message";
                }, // Argument 1
                () => {
                    return "Error Message";
                } // Argument 2
            ) // Function ends
    </script>
o/p:
() => {
           return "Success Message";
        }
fileName.html:11 Success Message
fileName.html:13 () => {
           return "Error Message";
        }
fileName.html:14 Error Message
```

Push arrow function definition to array upto 5 elements

```
<script>
        function myFun() {
            let myarray = [];
            for (let i = 0; i < 5; i++) {
                myarray.push(
                    () => {
                        return "Welcome " + i + "th time";
                    }
                )
            }
            for (let i = 0; i < 5; i++) {
                console.log(myarray[i]());
            }
        }
        myFun();
    </script>
o/p:
defaultPar.html:19 Welcome 0th time
defaultPar.html:19 Welcome 1th time
defaultPar.html:19 Welcome 2th time
defaultPar.html:19 Welcome 3th time
defaultPar.html:19 Welcome 4th time
setTimeOut()
Execute a function after a particular time......
Syntax : setTimeout(functionName(), time_in_mSec's)
Example:
    <script>
        myFun = () \Rightarrow {
            console.log("Hello..");
```

```
}
setTimeout(myFun, 5000);
</script>
```

Example 2: arrow function definition as parameter for setTimeout

Example 3: Combination of regular statements with setTimeouts

```
<script>
    console.log("Hello 1");
    setTimeout(() => {console.log("Hello 2");}, 5000);
    console.log("Hello 3");
</script>
```

o/p:

Hello 1

Hello 3

(After 5 seconds) Hello 2

//This mechanism is called **"Event loop mechanism".** Hello2 will be executed in parallel. This is secondary thread.

Example 3: Combination of regular statements with setTimeouts with 0 priority

```
<script>
    console.log("Hello 1");
    setTimeout(() => {console.log("Hello 2");}, 0);
    console.log("Hello 3");
</script>
```

<u>o/p:</u>

Hello 1

Hello 3

Hello 2 executed by secondary thread.

Date: 29-04-2020

setInterval()

Execute a function for every interval of time.

Example

```
let myFun = () => {
    console.log(" Hello world..");
}
setInterval(myFun, 1000);
```

o/p:

prints Hello world for every one second.

Example 2:

```
let myFun = () => {
    console.log(new Date().toLocaleTimeString());
}
```

```
setInterval(myFun, 1000);
```

o/p: Displays current time for every 1 second.

Assignment: execute setInterval function only 5 times...

Solution:

```
let count = 0;
let timerId = 0;
let myFun = () => {
    console.log(new Date().toLocaleTimeString());
    count++;
    if (count > 5) {
        clearInterval(timerId);
     }
}
timerId = setInterval(myFun, 1000, 3);
```

prints time only 5 times.

Constructor Funtions:

Used to create objects, using "new" keyword

"this" keyword is used to refer current class content

Object will be created in heap memory

Default Constructor Example:

```
function myConstructorFunction() {
    this.sub_one = "ReactJs";
    this.sub_two = "NodeJs";
    this.sub_three = "AngularJs"
```

```
}
let myObj = new myConstructorFunction();
console.log(myObj.sub_one, myObj.sub_two, myObj.sub_three);
o/p: ReactJs NodeJs AngularJs
Parameterized Constructor Example:
function myConstructorFunction(sub_one, sub_two, sub_three) {
    this.sub_one = sub_one;
    this.sub_two = sub_two;
    this.sub_three = sub_three;
}
let myObj1 = new myConstructorFunction("ReactJs", "AngularJs", "NodeJs");
let myObj2 = new myConstructorFunction("Java", "Adv.Java", "Spring");
console.log(myObj1.sub_one, myObj1.sub_two, myObj1.sub_three);
console.log(myObj2.sub_one, myObj2.sub_two, myObj2.sub_three);
o/p:
ReactJs AngularJs NodeJs
```

Define Functions inside Constructor Functions:

```
function myConstructorFunction() {
   this.MEAN = "MEAN Stack";
   this.MERN = "MERN Stack";
   this.MAVN = "MAVN Stack";

   this.meanFunction = function() {
```

Java Adv. Java Spring

```
return this.MEAN;
};

this.mernFunction = function() {
   return this.MERN;
};

this.mavnFunction = function() {
   return this.MAVN;
};
}

let myObj = new myConstructorFunction();
console.log(myObj.meanFunction(), myObj.mernFunction());
```

o/p: MEAN Stack MERN Stack MAVN Stack

Function passed to another function as object / argument:

```
function funOne(arg1) {
    this.test = arg1;
};

function funtwo() {
    this.test = "Welcome to constructor function..";
};

let obj1 = new funOne(new funtwo());
console.log(obj1.test.test);
```

Welcome to constructor function.

Nested Functions:

o/p:

```
function function1() {
   this.function2 = () => {
```

```
console.log("Hello world..");
}
let myVar1 = new function1();
myVar1.function2();

o/p:
Hello world..
```

Date: 30-04-2020

Constructor functions recap

Adding properties(Variables) to constructor functions dynamically

■ <u>Prototype</u> is predefined keyword – used to add properties and functions to constructor function

Example:

o/p: Hello World

```
function funcOne() {
}
funcOne.prototype.wish = "Hello world.."
let myObj = new funcOne();
console.log(myObj.wish);
```

Adding functions to constructor functions dynamically

```
function myFunction() {

}
myFunction.prototype.fun_one = function() {
    return " From Function One";
};
myFunction.prototype.fun_two = function() {
    return " From Function Two";
```

```
};
myFunction.prototype.fun_three = function() {
    return " From Function Three";
};
let myObj = new myFunction();
console.log(myObj.fun_one());
console.log(myObj.fun_two());
console.log(myObj.fun_three());

o/p:
From Function One
From Function Two
From Function Three
```

Combination of properties and functions to constructor functions dynamically

```
function myFunction() {

}

myFunction.prototype.es6 = "ES6";

myFunction.prototype.fun_one = function() {
    return `From Function One ${this.es6 }`;
};

let myObj = new myFunction();
console.log(myObj.fun_one());

o/p:
```

→Inheritance is called as prototype chaining in JS

From Function One ES6

- →Getting properties and functions from parent class is called as prototype chaining.
- → Child and parent class relationship can be made using Object.create(ParentClass)

```
Example:
```

```
function mean() {
}
mean.prototype.mean = "MEAN Stack";
function mern() {
}
mern.prototype = Object.create(mean.prototype); //Mean is Parent class, Mern is c
hild class
mern.prototype.mern = "MERN Stack"
function mevn() {
}
mevn.prototype = Object.create(mern.prototype); //Mern is Parent class, Mevn is c
hild class
mevn.prototype.mevn = "MEVN Stack";
let mevnObj = new mevn();
console.log(mevnObj.mean, mevnObj.mern, mevnObj.mevn);
o/p: MEAN Stack MERN Stack MEVN Stack
mean (parent)
mern (child to mean, parent to mevn)
mevn (child to mern and mean)
```

This process is called prototype chaining in JS.

Date: 1-05-2020

Console.dir(ObjectName): is used to see the internal structure of object.

Example:

Note: paste below code in a html file and then test.

```
<script>
          function myFunction() {
               this.variable1 = "variable 1";
               this.variable2 = "variable 2";
               this.variable3 = "variable 3";
          }
          myFunction.prototype.variable4 = "variable 4"
          myFunction.prototype.variable5 = "variable 5"
          console.dir(myFunction);
     </script>
o/p:
f myFunction()
    1. arguments: null

    caller: null
    length: 0

   4. name: "myFunction"
    5. prototype:

    variable4: "variable 4"
    variable5: "variable 5"

           3. constructor: f myFunction()
   4. __proto__: Object6. __proto__: f()7. [[FunctionLocation]]: sampleHTML.html:12
    8. [[Scopes]]: Scopes[1]
```

Note: Arrow Functions cannot have Prototype.

- → Object.prototype is the parent for all custom functions.
- → All the functions available in Object.prototype are available in custom Fun's

Eg: bind(), toString(), apply() etc etc etc...

For predefined functions:

- → Date.prototype is Parent for Date
- → Time.prototype is parent for Time

Date: 02-05-2020

Optional Parameters in Funcitons

While calling functions, few parameters are optional. representation "?" Symbol

Introduced in ES6

Will work in TypeScript Environment

File extension is .ts

Installing Typescript:

npm install -g typescript@latest

npm: Node Packaging Manager

→ Npm present in NodeJs

-g: Global installation

Type script is programming Language.

"tsc" compiler is used to compile TypeScript programs.

Equivalent JS file gets generated (in current directory) after successful compilation of .ts file: this process is called as "Transpilation".

demo.ts Transpiled > demo.js

Example:

```
function myFunction(arg1?:String, arg2?:string,arg3?:string){
    console.log(arg1,arg2,arg3);
}

myFunction(); //undefined undefined - Variable Hoisting
myFunction("ReactJs"); //ReactJs undefined undefined
myFunction("ReactJs","AngularJs","Typescript"); //ReactJs AngularJs Typescript
myFunction("ReactJs",undefined,"AngularJs"); //ReactJs undefined AngularJs
myFunction(undefined,undefined,undefined); //undefined undefined
myFunction(null,null,null); //null null
```

Combination of Regular parameter and optional parameter

Note: Optional parameter should be in last position in this combination.

Example:

```
function myFunction(arg1:string, arg2?:string,arg3?:string){
    console.log(arg1,arg2,arg3);
}

// myFunction(); //Compilation Error - Expected 1 or 2 parameters but got zero
myFunction("ReactJs"); //ReactJs undefined undefined
myFunction("ReactJs","AngularJs","Typescript"); //ReactJs AngularJs Typescript
myFunction("ReactJs",undefined,"AngularJs"); //ReactJs undefined AngularJs
myFunction(undefined,undefined,undefined); //undefined undefined
myFunction(null,null,null); //null null null
```

<u>Combination of Regular Parameter + Optional Parameter + Default Parameter</u>

```
function myFunction(arg1:string, arg2?:string,arg3:string="Hello3"){
    console.log(arg1,arg2,arg3);
}

//myFunction(); //Compilation Error - Expected 1 or 2 parameters but got zero
myFunction("ReactJs"); //ReactJs undefined Hello3
myFunction("ReactJs","AngularJs","Typescript"); //ReactJs AngularJs Typescript
myFunction("ReactJs",undefined,"AngularJs"); //ReactJs undefined AngularJs
myFunction(undefined,undefined,undefined); //undefined undefined Hello3
myFunction(null,null,null); //null null null
```

Date: 4-5-2020

<u>JSON</u>

- → <u>JavaScriptObjectNotation</u> also called as <u>JavaScriptObjects</u>
- → Light weight
- → Parsing(Reading) of json is easy compared to XML

```
Representation
Objects - { }
Arrays - [ ]
Data - key and Value pairs
Key and value - separated by colon (:)
Key and value pairs - separated by comma (,)
```

Example:

```
let obj = {
    sub_one : "Nodejs",
    sub_two : "ReactJs",
    sub_three : "AngularJs"
}
console.log(obj.sub_one); //NodeJs
console.log(obj.sub_two); //ReactJs
console.log(obj.sub_three);//AngularJs
```

Points to Remember:

- → Key should NOT start with Number, Even inside " " eg: "1" is NOT valid
- → Key should NOT be reserved JS keywords (like var, let etc)
- → If keys are Duplicated Old keys will be replaced by new key
- → Key can be "[]" or "{}" (inside quotes). It is valid. But cannot be accessible directly, it can be accessible using loops.
- → Key cannot be [] or { } without quotes it is invalid
- → Key can be null or undefined it is valid

Using loops to iterate json:

```
let obj = {
    sub_one : "Nodejs",
    sub_two : "ReactJs",
    sub_three : "AngularJs"
}
```

```
for(let key in obj){
    console.log(key,obj[key]);
}
o/p:
sub_one Nodejs
sub_two ReactJs
sub_three AngularJs
```

→ Data type of a variable can be identified using "type of" operator.

Nested Json:

```
let obj1 = {
   obj2: {
        obj3: {
            sub_one: "Nodejs",
            sub_two: "ReactJs",
            sub_three: "AngularJs"
        }
   }
}
for (let key in obj1.obj2.obj3) {
   console.log(key, obj1.obj2.obj3[key]);
}
o/p:
sub_one Nodejs
sub_two ReactJs
sub_three AngularJs
```

Example:

```
Functions inside json.
```

```
let obj1 = {
    obj3: login
}
function login(){
console.log("Hello world..");
}
obj1.obj3(); //Function output : Hello world..
obj1.obj3; // Function definition
Example:
let obj1 = {
    oracle: oracle,
    mongoDb:mongoDb,
    mysql:mySql
function oracle() {
    return "oracle connection soon..";
}
function mongoDb() {
    return "mongoDB connection soon..";
function mySql() {
    return "mysql connection soon..";
console.log(obj1.oracle); //[Function: oracle]
console.log(obj1.oracle()); //oracle connection soon..
console.log(obj1.mongoDb); //[Function: mongoDb]
console.log(obj1.mongoDb()); //mongoDB connection soon..
console.log(obj1.mysql); //[Function: mySql]
console.log(obj1.mysql()); //mysql connection soon..
```

Date: 5-5-2020

Delete a particular key from json

```
let myJson = {
    obj1:"Object one",
    obj2:"Object two",
    obj3:"Object three",
    obj4:"Object four"
}
console.log(myJson);
//{obj1:'Object one',obj2:'Object two',obj3:'Object three',obj4:'Object four}
delete myJson.obj4;
console.log(myJson);
//{ obj1: 'Object one', obj2: 'Object two', obj3: 'Object three' }
Freeze():
Values cannot be changed.
Object.freeze(...)
Example:
let myJson = {
    obj1:"Object one",
    obj2:"Object two",
    obj3:"Object three",
    obj4:"Object four"
}
console.log(myJson);
//{obj1:'Object one', obj2:'Object two', obj3:'Object three', obj4:'Object four'}
Object.freeze(myJson);
myJson.obj1="New Object one";
//{obj1:'Object one', obj2:'Object two', obj3:'Object three', obj4:'Object four'}
```

Seal()

Data can be modified, but new data cannot be added.

Example:

```
let myJson = {
    obj1:"Object one",
    obj2:"Object two",
    obj3:"Object three",
    obj4:"Object four"
}

console.log(myJson); //{obj1: 'Object one', obj2: 'Object two', obj3: 'Object three', obj4: 'Object four' }

Object.seal(myJson);
myJson.obj1="New Object one";
console.log(myJson);
//{ obj1: 'New Object one ', obj2: 'Object two', obj3: 'Object three' }

myJson.obj5:"Object five" //Compilation error
```

DefineProperty()

→Add new property to object

Example:

```
let myJson={
    obj1:"object one",
    obj2:"object two",
    obj3:"object three"
}
Object.defineProperty(myJson,"obj4",{value:"Object four",writable:true,enumerable
:true});
console.log(myJson);
//{obj1: 'object one', obj2: 'object two', obj3: 'object three',obj4: 'Object four'}
```

Note: If writable is set to false, that variable cannot be modified.

DefineProperties()

```
Example:
let myJson = {
    obj1: "object one"
```

```
Object.defineProperties(myJson, {
    "obj2": { value: "Object two", writable: true, enumerable: true },
    "obj3": { value: "Object three", writable: true, enumerable: true },
});
console.log(myJson);
0/P:
{ obj1: 'object one', obj2: 'Object two', obj3: 'Object three' }
Merge Objects
Before ES6:
let obj1 = { sub_one: "subject one" }
let obj2 = { sub_two: "subject two" }
Object.assign(obj1, obj2);
console.log(obj1);
O/p: { sub_one: 'subject one', sub_two: 'subject two' }
After Es6:
let obj_1={sub_one:"Subject one"};
let obj_2={sub_two:"Subject two"};
let obj_3={sub_three:"Subject three"};
let final = {...obj_1,...obj_2,...obj_3};
console.log(final);
o/p: { sub_one: 'subject one', sub_two: 'subject two' }
Shallow Cloning:
One object can be directly assigned to another object.
disadvantage: if 1st argument data changed -> second argument data also changes
let obj_1 ={"p_id":111};
let obj_2 = obj_1;
console.log(obj_1); //{ p_id: 111 }
console.log(obj_2); //{ p_id: 111 }
obj_1.p_id=222;
console.log(obj_1); //{ p_id: 222 }
```

```
console.log(obj_2); //{ p_id: 222 }
```

Deep Cloning:

Achieved using spread operator "..."

Example:

```
let obj_1 ={"p_id":111};
let obj_2 = {...obj_1};

console.log(obj_1); //{ p_id: 111 }

console.log(obj_2); //{ p_id: 111 }

obj_1.p_id=222;
console.log(obj_1); //{ p_id: 222 }

console.log(obj_2); //{ p_id: 111 }
```

Date: 5-6-2020

<u>Arrays</u>

```
Example:
```

```
<script>
    let products = [{
        p_id: 111,
        p_name: "p_one",
        p_cost: 10000
    }, {
        p_id: 222,
        p_name: "p_two",
        p_cost: 20000
    }, {
        p_id: 333,
        p_name: "p_three",
        p_cost: 30000
    }, {
        p_id: 444,
        p_name: "p_four",
        p_cost: 40000
    }, {
```

```
p_id: 555,
      p_name: "p_five",
      p_cost: 50000
   }, ];
   document.write(`
      <table border="1"
      align="center"
      cellspacing="10px"
      cellpadding="10px">
      <thead>
         S.NO
            P-Id
            P-Name
            P-Cost
         </thead>
      `);
   products.forEach((element, index) => {
      document.write(`
         ${index+1}
         ${element.p_id}
         ${element.p_name}
         ${element.p_cost}
         `);
   })
</script>
```

S.NO	P-Id	P-Name	P-Cost
1	111	p_one	10000
2	222	p_two	20000
3	333	p_three	30000
4	444	p_four	40000
5	555	p_five	50000

Reading Json

Use http://jsonviewer.stack.hu/ to view json structure.

Date: 5-7-2020

Async Calls

```
We will make use of json-server for making async calls.
Json-server is used to develop REST API's ( GET, POST, PUT, DELETE etc..)
Json-server is light-weight server
Supports only json objects
Install json-server using: npm install -g json-server@latest
Npm present in NodeJs
Load json data in json-server using: "json-server -watch filename.json"
Test REST API using postman tool
Download and install postman
Create a json in a text file with .json extension.
Example: demo.json
{
  "products": [
   {
      "id": 1,
      "p_id": 111,
```

```
"p_name": "p_one",
  "p_cost": 10000
},
{
  "id": 2,
  "p_id": 222,
  "p_name": "p_two",
  "p_cost": 20000
},
{
 "id": 3,
  "p_id": 333,
  "p_name": "p_three",
 "p_cost": 30000
},
{
 "id": 4,
  "p_id": 444,
  "p_name": "p_four",
  "p_cost": 40000
},
{
  "id": 5,
  "p_id": 555,
  "p_name": "p_five",
  "p_cost": 50000
}
```

```
]
}
Load the demo.json
Json-server --watch demo.json
* Default port number of json-server is 3000
Copy paste the URL in postman. Which is generated in json-server?
Eg:
GET http://localhost:3000/products
http://localhost:3000/products/1 : will display only product1 information.
<u>POST</u> http://localhost:3000/products and set data in body of postman and send,
data will be added to demo.json (verify)
POST: Send the data to the server
PUT: Update the request
http://localhost:3000/products/id id has to be set and sent the data in body (
make sure about the id we want to update). Check your json file, data will be
modified.
DELETE: used to delete the record
http://localhost:3000/products/id - id has to be sent, to delete particular
record. Check you json file
sorting in postman URL
   → Sort based on p cost in descending order
            http://localhost:3000/products?_sort=p_id&_order=desc
   → Sort based on p cost in ascending order
            http://localhost:3000/products? sort=p id& order=asc
```

GreaterThan or Equal

→ Greater than a particular id (_gte)
http://localhost:3000/products? id gte=3

LessThan or Equal

→ Less than a particular id (_lte)
http://localhost:3000/products? id lte=3

Searching (q = ...) in complete body

→ http://localhost:3000/products?q=50000

Date: 8-5-2020

Async communication:

Below table provides information about how we can achieve ajax in different-different languages.

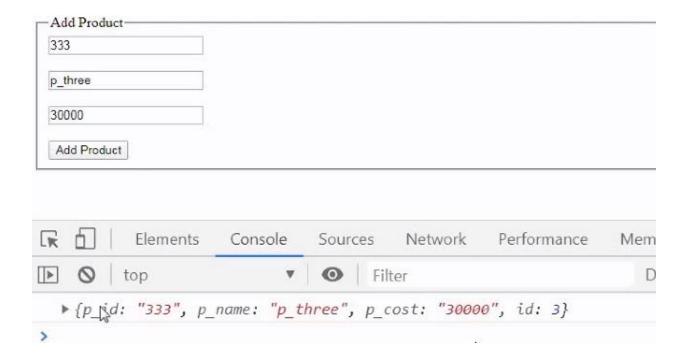
Jquery	Ajax	
Angular	\$http	
Angular 10	httpClient	
ReactJs	Axios	

Example:

```
$.ajax({
    method : "GET",
    url : "https://restcountries.eu/rest/v2/all",
    success : (posRes)=>{
        console.log(posRes);
    },
    error : (errRes)=>{
        console.log(errRes);
    }
});
</script>
```

```
→if get request success - result will be stored in posRes variable
→if get result failed - result will be stored in errRes variable
Integrate the above example with json-server. load product.json in json-server (
json-server --watch products.json)
<script>
           $.ajax({
              method : "GET",
              url : "http://localhost:3000/products",
              success : (posRes)=>{
                  console.log(posRes);
              },
              error : (errRes)=>{
                  console.log(errRes);
              }
           })
       </script>
Post Data using POST request:
//field set is used to get boxed form
       <fieldset>
           <legend>Add Product</legend>
           <input type="number" id="p_id">
                                           <br><br><br>>
```

```
<input type="number" id="p_cost"> <br><br>
    <button id="my_btn">Add Product</button>
</fieldset>
<script>
    $("#my_btn").click(function(){
        let record = {
            "p_id": $("#p_id").val(),
            "p_name" : $("#p_name").val(),
            "p_cost" : $("#p_cost").val()
        };
        $.ajax({
            method : "POST",
            url : "http://localhost:3000/products",
            data : record,
            success : (posRes)=>{
                console.log(posRes);
            },
            error : (errRes)=>{
                console.log(errRes);
            }
        })
    });
</script>
```



Assignment - put request and delete request.

```
PUT Example (it is an assignment - not discussed in class)
```

```
    let myData = {
        "id": 1500,
        "title": "App-server",
        "author": "WEBcode"

    };
    $.ajax({
        type: "PUT",
        data: myData,
        url: " http://localhost:3000/posts/" + myData.id,
        success: console.log("Success"),
    });
    </script>
```

Delete Example

```
<script>
    let myData = {
        "id": 1500,
        "title": "App-server",
```

```
"author": "WEBcode"

};

$.ajax({
    type: "DELETE",
    data: myData,
    url: " http://localhost:3000/posts/" + myData.id,
    success: console.log("Success"),
    });

</script>
```

Date: 9-5-2020

Load different json file in different json-servers using different port numbers:

```
In terminal 1:
```

```
Json-server --watch filename1.json --port 8080
```

After that try URL's generated in browser or postman.

Create another terminal – Terminal 2:

```
Json-server --watch filename2.json --port 9090
```

After that try URL's generated in browser or postman.

If function need to return response 100% (either success or failure) is called as PROMISE

Asncronous calls can be made using .ajax({ })

If get request success – return positiveResponse – inform positive response to promise by using: resolve (positiveResponse)

If get request failure – return errorResponse – inform error response to promise by using: reject (errorResponse)

To consume Promise – in ES9 – two different methods are introduced – 1. Async 2. Await.

Syntax:

```
aync function functionName(){
```

```
Let var1 = await.methodName(); // Method name is custom method name
```

Console.log(var1);

From ES9 IIFE has introduced.

- → Immediate Invocable Functional Expression
- → Merge both declaration and calling of method
- → Syntax (() => {})();
- → Syntax for aync methods : (aync () => { }) ();