**---------------\*ASSIGNMENT\*--------------**

**1)=> Write the code, one line for each action:**

answer =>

a) create an empty object user . ==>

<script>

const user = {};

</script>

b) Add the property name with the value john, == >

<script>

const user = {name : "john"};

document.write(user.name);

</script>

C) Add the property surname with the value smith ==>

<script>

const user { Name : "vishu" username : "AJ "}

document.write(user.sername);

</script>

d) change the value of the name to pete ==>

<Script>

const user = {name : "john"}

user.name = "pete"

document.write(user.name)

</Script>

e) remove the property name from the object

<script>

const user = { name: "John", surname: "Smith" };

delete user.name;

document.write(user.name);

</script>

**2) => Is Array copied ?**

// push a new value into the "copy"

let shoppingCart = fruits; shoppingCart.push("Banana");

// what's in fruits?

alert( fruits.length ); // ?

answer => Yes, It will show alert message

=> fruits => Apple,Pear,Orange,Banana

=> fruits length => 4

**3)=> Map to Name ?**

let john = { name: "John", age: 25 };

let pete = { name: "Pete", age: 30 };

let mary = { name: "Mary", age: 28 };

let users = [ john, pete, mary ];

let names = /\* ... your code \*/

alert( names ); // John, Pete, Mary

answer =>

<script>

let names = users.map((item) => item.name);

</script>

**4)=> Map To Obejct**

let john = { name: "John", surname: "Smith", id: 1 };

let pete = { name: "Pete", surname: "Hunt", id: 2 };

let mary = { name: "Mary", surname: "Key", id: 3 };

let users = [ john, pete, mary ];

let usersMapped = /\* ... your code ... \*/

/\*

usersMapped = [

{ fullName: "John Smith", id: 1 },

{ fullName: "Pete Hunt", id: 2 },

{ fullName: "Mary Key", id: 3 }

]

\*/

alert( usersMapped[0].id ) // 1

alert( usersMapped[0].fullName ) // John Smith

answer =>

<script>

let usersMapped = users1.map((user) => ({

fullName: `${user.name} ${user.surname}`,

id: user.id,

}));

</script>

**5)=> Sum the properties There is a salaries object with arbitrary number of salaries. Write**

the function sumSalaries(salaries) that returns the sum of all salaries using

Object.values and the for..of loop.If salaries is empty, then the result must be 0.

let salaries = {

"John": 100,

"Pete": 300,

"Mary": 250

};

alert( sumSalaries(salaries) ); // 650answer => if one of salaries value is Zero Answer => 0

=> if one of salaries value is not Zero Answer => 650

<script>

let salaries = {

John: 100,

Pete: 300,

Mary: 250,

};

function sumSalaries(salaries) {

let sum = salaries.John + salaries.Pete + salaries.Mary;

for (let sallary of Object.entries(salaries)) {

if (salaries.John == 0 || salaries.Pete == 0 || salaries.Mary == 0) {

return document.write("0");

} else {

return document.write(sum);

// return alert(sum);

}

}

}

sumSalaries(salaries);

</script>

**6)=> Destructuring assignment We have an object: Write the Destructuring assignment that reads:**

(a) Name property into the variable name.

(b) Year’s property into the variable age.

(c) isAdmin property into the variable isAdmin (false, if no such property)

(d) let user = { name: "John", years: 30};

answer =>

<script>

let user = { Name: "John Smith", Years: 35 };

let { Name: name, Years: age, isAdmin = false } = user;

document.write(name);

document.write(age);

document.write(isAdmin);

</script>

**7)=> Turn the object into JSON and back Turn the user into JSON and then read it back into another variable.**

user = { name: "John Smith", age: 35};

answer =>

<script>

let user\_1 = { name: "John Smith", age: 35 };

let user\_2 = JSON.parse(JSON.stringify(user\_1));

</script>