MODULE: 2 (DATA TYPES AND OBJECTS)

ASSIGNMENT

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1. Write the code, one line for each action:
a) Create an empty object user.
b) Add the property name with the value John.
c) Add the property surname with the value Smith.
d) Change the value of the name to Pete.
e) Remove the property name from the object.
let user = {};
user.name = "John";
user.surname = "Smith";
user.name = "Pete";
delete user.name;
2. Is array copied?
let fruits = ["Apples", "Pear", "Orange"];
// push a new value into the "copy"
let shoppingCart = fruits; shoppingCart.push("Banana"); // what's in fruits?
alert(fruits.length); //?
let fruits = ["Apples", "Pear", "Orange"];
   let shoppingCart = fruits;
   shoppingCart.push("Banana");
   alert(fruits.length); // 4
3. Map to names
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
let john = { name: "John", age: 25 };
   let pete = { name: "Pete", age: 30 };
   let mary = { name: "Mary", age: 28 };
```

let users = [john, pete, mary];

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

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

```
4. Map to objects
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
let usersMapped = users.map(user => ({
    fullName: `${user.name} ${user.surname}`,
       id: user.id
}));
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..ofloop.If salaries is empty, then the result must be 0.
let salaries = { "John": 100, "Pete": 300, "Mary": 250 };
alert( sumSalaries(salaries) ); // 650
function sumSalaries(salaries) {
       let sum = 0;
       for (let salary of Object.values(salaries)) {
       sum += salary;
       }
       return sum; // 650
}
6. Destructuring assignment We have an object: Write the Destructuring assignment that
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};
➤ let user = {
       name: "John",
       years: 30
};
let {name, years: age, isAdmin = false} = user;
```