**Frontend Assignment**

**JavaScript**

**MODULE: 2 (Data Types and Objects)**

**Write the code, one line for each action:**

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1. **Create an empty object user.**

**ANS.**  let user = {}

1. **Add the property name with the value John.**

**ANS.**  let user = {name: “John”}

1. **Add the property surname with the value Smith.**

**ANS.**  let user = {name: “John”, surname:”Smith”}

1. **Change the value of the name to Pete.**

**ANS.**  let user = {name: “John”, surname: “Smith”}

user.name = “Pete”;

1. **Remove the property name from the object.**

**ANS.**  let user = {name: “John”, surname: “Smith”}

deleteuser.name = “Pete”;

**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 ); //

**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 = /\* users.map(item=>item.name);\*/

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

**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 ...

users.map(user =>(fullname:`{$user.name} {$user.surname}`, id: user.id));

\*/

usersMapped = [ {fullName: "John Smith", id: 1}, { fullName: "Pete Hunt", id: 2 }, { fullName: "Mary Key", id: 3 } ]

usersMapped = [ { fullName: "John Smith", id: 1 }, { fullName: "Pete Hunt", id: 2 }, { fullName: "Mary Key", id: 3 } ]

**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 };

function sumSalaries(salaries)

{

let sum = 0;

for(let salary of Object.values(salaries))

{

sum +=salary;

}

}

alert(sumSalaries(salaries) ); // 650

**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};

**ANS.**

let user = {

name: "John",

years: 30

};

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

alert( name ); // John

alert( age ); // 30

alert( isAdmin ); // false

**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}

**ANS.**

let user2 = JSON.parse(JSON.stringify(user));

alert(user2);