**Assignment Advance JavaScript**

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

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

now fruit array length is = 4

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 ];

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

alert( names );

output= 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 ... \*/ /\* 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 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 = 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 }

]

\*/

alert( usersMapped[0].id ); // output= 1

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

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) ); // 650

function sumSalaries(salaries) {

    let sum = 0;

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

      sum += salary;

    }

    return sum; // 650

  }

  let salaries = {

    "John": 100,

    "Pete": 300,

    "Mary": 250

  };

  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};

let user = {

    name: "John",

    years: 30

  };

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

  alert( name ); // John

  alert( age ); // 30

  alert( isAdmin ); // false