Advanced Javascript –Module 10) Javascript Object

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.

Ans :

a) let user = {};

b) user.name = “John”

c) user.surname = “Smith”

d) user[‘name’] = “Pete”

e) 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 );

Ans : Yes Array Will be copied

 fruits= ['Apples', 'Pear', 'Orange', 'Banana']

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

Ans:

  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((val)=>

            {

                return (val.name);

                console.log(val.name);

            })

            console.log(names);

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 userMapped =users;

for(let i in userMapped)

  {

    userMapped[i].fullname= userMapped[i].name +" "+ userMapped[i].surname;

  }

console.log(userMapped);

console.log( userMapped[1].id )

console.log( userMapped[0].fullname )

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) ); // 650

Prog :

 let salaries = { "John": 100, "Pete": 300, "Mary": 250 };

let x = 0;

  for(let vals in salaries)

         {

            x = salaries[vals]+x;

            if(salaries[vals]==="")

            {

               console.log("Error..")

            }

         }

         sumSalaries(x);

         function sumSalaries(x)

         {

            if(x==0)

         {

            console.log("Result is 0");

         }

         else{

            alert("Sum of All the salaries is : "+x);

         }

        }

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};

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

//a)

let name = user.name;

console.log(name);

//b)

let age = user.years;

console.log(age);

//c)

let isAdmin=user.isAdmin;

if(isAdmin==true)

{

  console.log("true")

}

else

{

  console.log("False")

}

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};

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

const myJSON =JSON.stringify(user);

console.log(myJSON);

const user1 =JSON.parse(myJSON);

console.log(user1);

O/P :{"name":"John Smith","age":35}

{name: 'John Smith', age: 35}