Assignment (Advance JavaScript)

MODULE: 1 (Introduction and Code Quality)

Write a program to Show an alert

➤ What will be the result for these expressions?

Ans:

1) 5 > 4

Ans. True

2) "apple" > "pineapple"

Ans. False (Dictionary comparison, hence false. "a" is smaller than "p".)

Ans. True (Again, dictionary comparison, first char "2" is greater than the first char "1".)

4) undefined == null

Ans. True (Values null and undefined equal each other only.)

5) undefined === null

Ans. False

6) null == "
$$n0\n$$
"

Ans. False (null only equals undefined.)

Ans. False

➤ Will alert be shown?

Ans: if("0") { alert("Hello");}

Yes it will.

Any string except an empty one (and "0" is not empty) becomes true in the logical context.

➤ What is the code below going to output? Alert(null || 2 || undefined);

Ans: The answer is 2. Because null and undefined refers to empty string.

➤ The following function returns true if the parameter age is greater than 18. Otherwise it asks for a confirmation and returns its result:

Ans:

```
Function checkAge(age){
    if(age>18)
        {return true;}
    else
        { //...return confirm('did parents allow you?') }
}
```

➤ Replace Function Expressions with arrow function in the code

```
below:
```

```
function ask(question, yes, no) {
if (confirm(question)) yes();
else no();
ask(
 "Do you agree?",
 function() { alert("You agreed."); },
 function () { alert( "You canceled the execution." ); }
Ans:
function ask(question, yes, no) {
 if (confirm(question)) yes();
else no();
}
ask(
   "Do you agree?",
  () => alert( "You agreed." ),
  () => alert( "You canceled the execution." ) );
```

MODULE: 2 (Data Types and Objects)

➤ Write the code, one line for each action:

Ans:

a) Create an empty object user.

```
Ans: let user = { };
```

b) Add the property name with the value John.

```
Ans: user.name = "John";
```

c) Add the property surname with the value Smith.

```
Ans: user.surname = "Smith";
```

d) Change the value of the name to Pete.

```
Ans: user.name = "pete";
```

e) Remove the property name from the object.

Ans: delete user.name;

➤ 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 is copied.
  Let fruits = ["Apple", "Pear", "Orange"];
  Let shoppingCart = fruits;
  shopingCart.push("Banana");
  console.log(shoppingCart);
  alert(fruits.length); // ans:- fruits 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
  Ans:
  Let john = \{name: "john", age: 25\};
  Let pete = \{\text{name: "pete", age: 22}\};
  Let mary = \{\text{name: "mary", age: 18}\};
  Let users = [john, pete, mary];
  Let names = users.map(val => val.name);
```

```
alert(names);
```

```
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
  Ans:
  Let john = \{name: "john", age: 25\};
  Let pete = \{\text{name: "pete", age: 22}\};
  Let mary = \{\text{name: "mary", age: 18}\};
  Let users = [john, pete, mary];
  Let usersMapped = users.map(user => ({
   fullName: `${user.name} ${user.surname}`,
   id: user.id
  }));
  alert(usersMapped[0].id );
```

alert(usersMapped[0].fullname);

Sum the properties There is a salaries object with arbitrary number od salaries. Write the function sumsalaries 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.

Ans:

```
Let salaries = {
    "john": 100,
    "pete": 300,
    "mary": 250 };

Function sumSalaries(salaries) {
    Let sum = 0;
    for (let salary of Object.values (salaries)) {
        sum += salary; }
    return sum;
}

alert( sumSalaries(salaries) );
```

- ➤ Desturcturing 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 isAdmine (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 user = { name: "John Smith", age: 35 **}**;

Let usernew = JSON.parse(JSON.stringify(user));

MODULE: 3 (Document, Event and Controls)

Create a program to hide/show the password

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ Hide_Show_Password.html

➤ Create a program that will select all the classes and loop over and whenever I click the button the alert should show

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ Click_btn_alertbox.html

Create a responsive header using proper JavaScript

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ Responsive_Header_withJS.html

Create a form and validate using JavaScript

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ form_validate_func.html

> Create a modal box using css and Js with three buttons

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/modal_box.html

Use external JS library to show slider

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/slider.html

Prevent the browser when I click the form submit button

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ form_submit_btn.html

MODULE: 4 (New Request)

What is JSON

Ans: JSON stands for JavaScript Object Notation

JSON is a lightweight format for storing and transporting data

JSON is often used when data is sent from a server to a web page

JSON is "self-describing" and easy to understand

What is promises

Ans: "Producing code" is code that can take some time

"Consuming code" is code that must wait for the result

A Promise is a JavaScript object that links producing code and consuming code

A JavaScript Promise object can be:

- Pending
- Fulfilled
- Rejected

```
myPromise.then{
function(value){/*code if successful*/},
function(error){/*code if failed*/}
};
```

Write a program of promises and handle that promises also

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/ promise_task.html

➤ Use fetch method for calling an API https://fakestoreapi.com/products

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/fetch_API.html

Display all the product from the API in your HTML page

Ans:

https://github.com/KunalPatel30/Assignment/blob/dce96d63f91 30dd8acccc53d2068bca9ffaa786a/Advance%20JS%20Practicle/fetch_API.html