ASSIGNMENT-6

Advance Javascript

MODULE: 1(Introduction and Code Quality)

- Write a program to Show an alert

Ans. document.write(alert("Any message you can put here"));

- What will be the result for these expressions?

1. 5>4

Ans. True

2. "apple" > "pineapple"

Ans. False

3. "2" > "12"

Ans. True

4. undefined == null;

Ans. True

5. undefined === null;

Ans. False

6. null == "\n0\n"

Ans. False

7. null === "\n0\n"

Ans. False

- Will alert be shown? If("0") {alert('Hello'};

Ans. Yes , if we put "0" in condition it is work as a string and code under this condition would execute. But if we put 0 in condition it is work as a number and code under this condition would never execute.

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

Ans. Result will be 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) {   //making function to check age

   if (age> 18)

   { return true; }

   Else

   { return confirm ('did parents allow you?'); } // open confirm box

   }

- Replace Function Expressions with arrow functions 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."); },   //Arrow function

()=>{alert("You canceled the execution."); })   //Arrow function

MODULE: 2(Data Types and Objects)

- Write the code, one line for each action:
    - a) Create an empty object user.

    Ans. let person = new Object(); //Create an object

    - b) Add the property name with the value John.

    Ans. person.name = "John"; //Make property called name and assign value 'John'

    - c) Add the property surname with the value Smith.

    Ans. person.surname = "Smith"; //Make property called surname and assign value 'Smith'

    - d) Change the value of the name to Pete.

    Ans. person.name = "Pete"; //change value of property called name and assign value 'Pete'

   o e) Remove the property name from the object.

  Ans. delete person.name; //Delete property called 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

Fruits = ["Apples", "Pear", "Orange","Banana"] //because both variable assigns to the same reference

The fruits length will be 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 = {name:"Pete", age:30};

let mary = {name:"Mary" age:28};

let users = [john,pete,mary];

let names = users.map((item) => {item.name}); // carrying out name value from objects.

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 usersMapped = users.map((user) => ({

fullname: `${user.name} ${user.surname}`,

id: user.id

}));
```


- 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
```

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

    function sumSalaries(salaries) {
        var sum = 0;                //made sure that sum will be 0
        for (const salary of Object.values(salaries)) {
```

```
        sum += salary;            //addition of salaries
    }
    return sum;                   //Output as sum
  }

  alert( sumSalaries(salaries) );
```

- 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 } = user; // Extracting the 'name' property

let { years: age } = user; // Extracting the 'years' property and assign it to 'age'

let { isAdmin = false } = user; // Extracting the 'isAdmin' property with a default value of '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.

//JSON.parse converts object into json

let object = JSON.parse(user);

//JSON.stringyfy coverts json into object

let json = JSON.stringify(object);

MODULE: 3(Document, Event and Controls)

- Create a program to hide/show the password

Ans.
**https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/show%
20password.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/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/class%
20select%20and%20alert.html**

- Create a responsive header using proper JavaScript

Ans.
**https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/respon
sive%20header.html**

- Create a form and validate using JavaScript

Ans.
**https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/form%
20validation.html**

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

Ans.
https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/model
box.html

Ans.
https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/slider-
javascript.html

Ans.
https://github.com/Parth12011999/JAVASCRIPT/blob/2320d6385fe8117202
e7649edbc5cee2e021c95d/Document,%20Events%20and%20Control/form%
20validation.html

MODULE: 4(New Request)

- What is JSON

Ans. JavaScript Object Notation is standard file format used to exchange data internally. Object data are stored and transmitted using key-value pair and array data types. JSON format is text only, which makes easy to read and use with any programming language.

- What is promises.

Ans. JavaScript Promise Object combination of both the producing code and calls to the inner code

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/Parth12011999/JAVASCRIPT/blob/8a4e6cfbcd9b477937
4cf64d847ed8573fb8d6fe/New%20Request/promis.html**

- **Use fetch method for calling an api** https://fakestoreapi.com/products

Ans.

**https://github.com/Parth12011999/JAVASCRIPT/blob/78ce5dffbdafcddd78c
806ce445b4e5a148d48ae/New%20Request/fetchapi.html**

- **Display all the product from the api in your HTML page**

Ans.

**https://github.com/Parth12011999/JAVASCRIPT/blob/78ce5dffbdafcddd78c
806ce445b4e5a148d48ae/New%20Request/fetchapi.html**