Advanced JavaScript

1. Write a program to Show an alert

-->



2. What will be the result for these expressions?

- *1.* 5 > 4
- 2. "apple" > "pineapple"
- *3. "2" > "12"*
- 4. undefined == null
- 5. undefined === null
- 6. null == "|n0|n"
- 7. null === +"|n0|n"
- -->1. true
 - 2. false
 - 3. true
 - 4. true
 - 5. false
 - 6. false
 - 7. false

3. Will alert be shown? if ("0") { alert('Hello'); }

- --> Yes the alert will be shown.
- 4. What is the code below going to output? alert(null |/ 2 |/ undefined);
- --> The output will be 2.
- 5. The following function returns true if the parameter age is greater than 18.

 Otherwise it asks for a confirmation and returns its result:

<u>function</u> <u>checkAge(age)</u>

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

- --> In this function:
 - If the age is greater than 18, it immediately returns true.
 - If the age is not greater than 18, it
 prompts the user with a confirmation
 dialog asking whether the parents
 allowed it. The function then returns the
 result of this confirmation dialog. If the

user clicks OK, it returns true; if the user clicks Cancel, it returns false.

```
6. 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."); }

}

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Data Types and Objects

- 7. 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.
- -->

```
| Order | Description | Description | Order |
```

8. Is array copied?

let fruits = ["Apples", "Pear", "Orange"];
// push a new value into the "copy" let
shoppingCar=fruits;
shoppingCart.push("Banana"); // what's
in fruits?

alert(fruits.length); // ?

--> Yes this array is copied.

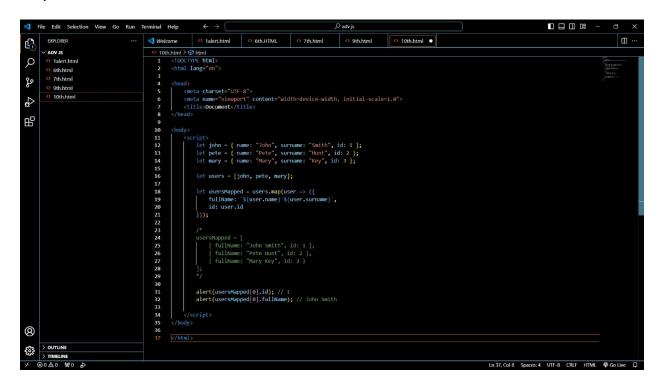
9. Map to names let john = { name: "John", age: 25 }; let pete = { name: "Pete", age: 30 }; let mary = { name: "Mary", age: 28 }; let users = [john, pete, mary]; let names = /* ... your code */ alert(names); // John, Pete, Mary



10. Map to objects let john = { name: "John", surname: "Smith",id:1 }; let pete = { name:"Pete", surname:"Hunt", id: 2 }; letmary={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)//1alert(user sMapped[0].fullName// John Smith.

-->



11. 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

-->

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12. 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};

-->

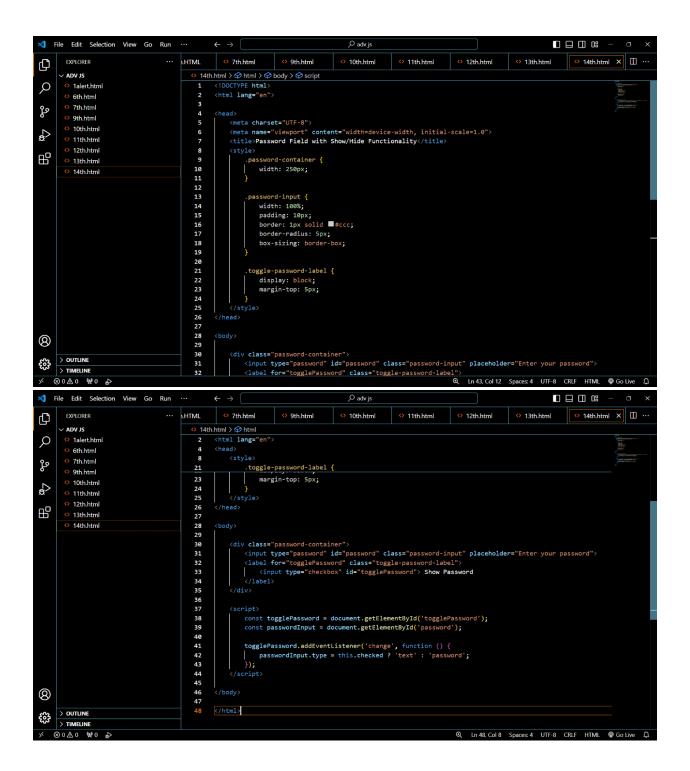
13. Turn the object into JSON and back Turn the user into JSON and then read it back into another variable. user = { name: "John Smith", age: 35};

-->

Document, Event and Controls

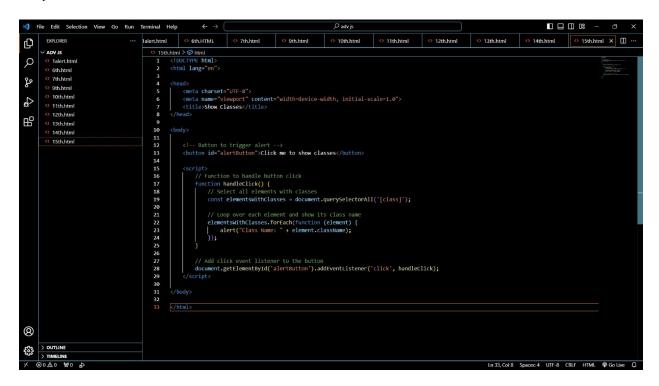
14. Create a program to hide/show the password

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15. Create a program that will select all the classes and loop over and whenever i click the button the alert should show

-->



16. Create a responsive header using proper JavaScript

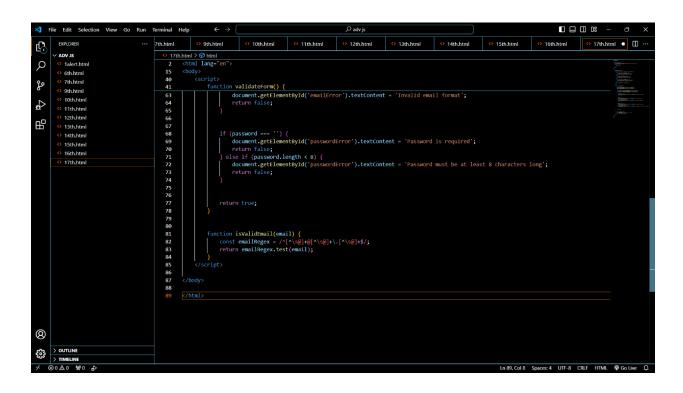
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17. Create a form and validate using JavaScript

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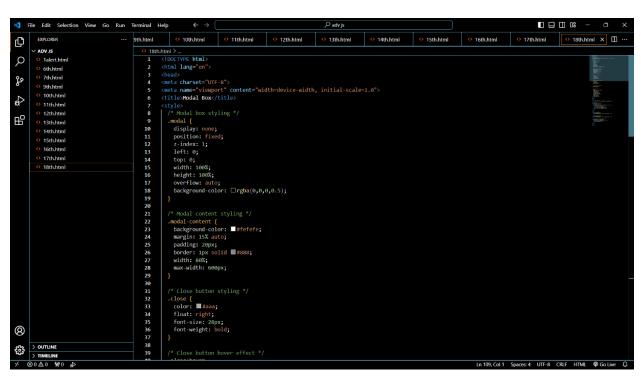
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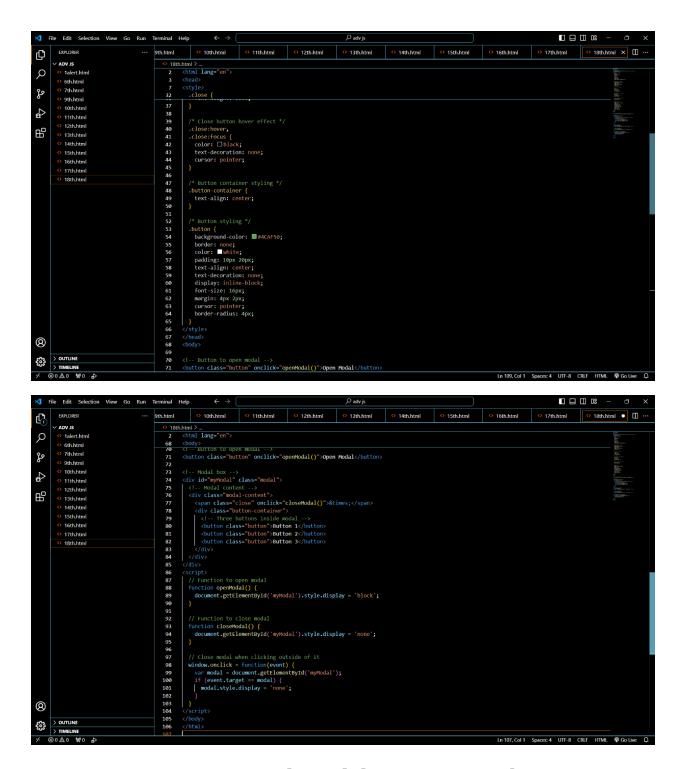
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18. Create a modal box using css and Js with three buttons

-->





19. Use external js library to show slider

20. Prevent the browser when i click the form submit button

New Request

21. What is JSON

--> JSON (JavaScript Object Notation) is a lightweight data interchange format that is easy for humans to read and write, and easy for machines to parse and generate.

22. What is promises

--> Promises are a fundamental concept in JavaScript used for handling asynchronous operations. They represent a value that may be available now, or in the future, or never. Promises are mainly used for handling asynchronous operations like fetching data from a server, reading files, or executing long-running computations.

23. Write a program of promises and handle that promises also

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24. Use fetch method for calling an api

https://fakestoreapi.com/products

JavaScript Essentials

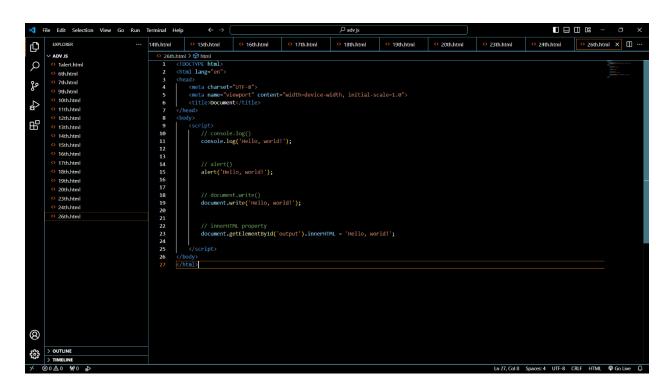
25. What is JavaScript Output method?

--> JavaScript output methods are ways to display information to the user in a web browser. The main JavaScript output methods include:

- **1.** console.log(): Used to send messages or data to the browser's console for debugging and logging purposes.
- **2.** alert(): Displays a simple dialog box with a message to the user, commonly used for notifications or alerts.
- 3. document.write(): Writes HTML content or JavaScript code directly to the document, but it's rarely used due to potential side effects.
- 4. innerHTML property: Sets or returns the HTML content of an element on the webpage, allowing dynamic updates of content displayed to the user.

26. How to used JavaScript Output method?

--> JavaScript output methods are used to display information to users in a web browser.



27. How to use JavaScript Events to do all examples?

JavaScript events allow you to trigger actions based on user interactions or other occurrences in the browser.

1. Console Log Using Event Listener:

2. Alert Using Event Listener:

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                                                  document.getElementByrd('alertButton').addEventListener('click', function () {
    alert('Hello, world|');
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3. Document Write Using Event

Listener:

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4. Inner HTML Using Event Listener:

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