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Frontend Assignment

Part 1: Web Designing

MODULE: 4 (JS Basis & DOM)

- **What is JavaScript?**

- ⇒ JavaScript is the Programming Language for the Web. JavaScript can update and change both HTML and CSS. JavaScript can calculate, manipulate and validate data.

- **What is the use of isNaN function?**

- ⇒ The isNaN() function determines whether a value is NaN when converted to a number. Because coercion inside the isNaN() function can be surprising, you may alternatively want to use Number.isNaN().

- **What is negative Infinity?**

- ⇒ Is a special numeric value that is returned when an arithmetic operation or mathematical function generates a negative value greater than the largest representable number in JavaScript (i.e., more negative than -Number.

- **Which company developed JavaScript?**

- ⇒ JavaScript was invented by Brendan Eich in 1995. It was developed for Netscape 2, and became the ECMA-262 standard in 1997. After Netscape handed JavaScript over to ECMA, the Mozilla foundation continued to develop JavaScript for the Firefox browser.

- **What are undeclared and undefined variables?**

- ⇒ Undeclared variables are those that have not been declared or defined in the current scope, while undefined variables are those that have been declared but not given a value.

- **Write the code for adding new elements dynamically?**

- ⇒ The createElement() method in JavaScript can be used to create new items dynamically. The setAttribute() method is used to set the attributes of the newly generated element. By clicking a button, a modal box appears and collects the required information dynamically.

- **What is the difference between ViewState and SessionState?**

- ⇒ A ViewState is a state of a page within a browser wherein the values of controls persist when post back operation is done. When another page is loaded, the previous page data is no longer available. - SessionState is the data of a user session and is maintained on the server side.

- **What is === operator?**

- ⇒ The strict equality (===) operator checks whether its two operands are equal, returning a Boolean result. Unlike the equality operator, the strict equality operator always considers operands of different types to be different.

- ⇒ Example:

```
console.log(1 === 1);  
// Expected output: true
```

```
console.log('hello' === 'hello');  
// Expected output: true
```

```
console.log('1' === 1);  
// Expected output: false
```

```
console.log(0 === false);  
// Expected output: false
```

- **How can the style/class of an element be changed?**

- ⇒ Another way to alter the style of an element is by changing its class attribute. class is a reserved word in JavaScript, so in order to access the element's class, you use element.className .

- **How to read and write a file using JavaScript?**

- ⇒ file=fopen(getScriptPath(),0); The function fread() is used for reading the file content.
 - ⇒ str = fread(file,length(file) ; The function fwrite() is used to write the contents to the file.
 - ⇒ file = fopen("c:\MyFile.txt", 3); // opens the file for writing.

- **What are all the looping structures in JavaScript?**

- ⇒ JavaScript supports different kinds of loops:
 - for - loops through a block of code a number of times
 - for/in - loops through the properties of an object
 - for/of - loops through the values of an iterable object
 - while - loops through a block of code while a specified condition is true
 - do/while - also loops through a block of code while a specified condition is true

- **How can you convert the string of any base to an integer in JavaScript?**

- ⇒ To convert a string to an integer parseInt(), Number(), and Unary operator(+) function is used in javascript. parseInt() function returns Nan(not a number) when the string doesn't contain number. If a string with a number is sent, then only that number will be returned as the output.

- **What is the function of the delete operator?**

- ⇒ The delete operator removes a property from an object. If the property's value is an object and there are no more references to the object, the object held by that property is eventually released automatically.

- **What are all the types of Pop up boxes available in JavaScript?**

- ⇒ JavaScript has three kind of popup boxes: Alert box, Confirm box, and Prompt box.

- **What is the use of Void (0)?**

- ⇒ JavaScript void 0 means returning undefined (void) as a primitive value. You might come across the term "JavaScript:void(0)" while going through HTML documents. It is used to prevent any side effects caused while inserting an expression in a web page.

- **How can a page be forced to load another page in JavaScript?**

- ⇒ In JavaScript, we can use window.location object to force a page to load another page. We can use the location object to set the URL of a new page.

- **What are the disadvantages of using innerHTML in JavaScript?**

- ⇒ Disadvantages of innerHTML
 - Event handlers attached to any DOM element are preserved.
 - Replacement is done everywhere.
 - It is not possible to append innerHTML.
 - Breaks the document.
 - Used for Cross-site Scripting.