**MODULE: 4 (JavaScript Basic & DOM)**

* **What is JavaScript?**

**Ans:**

JavaScript is a programming language that is primarily used to create dynamic and interactive web pages. It is a high-level, interpreted language that is embedded within web browsers and runs on the client-side of web applications. JavaScript allows developers to add interactivity, animations, and other rich features to websites.

JavaScript was initially created in 1995 by Brendan Eich while he was working at Netscape Communications Corporation.

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

**Ans:**

The isNaN() function takes a single argument and returns true if the argument is NaN, and false otherwise. If the argument is not a number, the function attempts to convert it to a number before checking whether it is NaN. If the argument cannot be converted to a number, the function returns true.

* **What is negative Infinity?**

**Ans:**

In JavaScript, Negative Infinity is a special value that represents the mathematical concept of negative infinity. It is a number that is smaller than any other number, including negative numbers.

exmaple

console.log(Number.NEGATIVE\_INFINITY); // -Infinity

console.log(-1 / 0); // -Infinity

console.log(1 / Number.NEGATIVE\_INFINITY); // 0

* **Which company developed JavaScript?**

**Ans:**

JavaScript was developed by Netscape Communications Corporation, which was a software company that was founded in 1994. In 1995, Brendan Eich, who was working at Netscape at the time, created JavaScript in just 10 days. The initial version of JavaScript was called Mocha, but it was later renamed to LiveScript, and finally to JavaScript.

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

**Ans:**

1. Undefined means you have created a variable but it does not have a value.
2. Undeclared means you do not have that variable at all.

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

**Ans:**

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?**

**Ans:**

Session state is saved on the server, ViewState is saved in the page. Session state is usually cleared after a period of inactivity from the user (no request happened containing the session id in the request cookies). The view state is posted on subsequent post back in a hidden field.

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

**Ans:**

The === operator means "is exactly equal to," matching by both value and data type. The == operator means "is equal to," matching by value only.

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

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?**

**Ans:**

In JavaScript, you can read and write files using the built-in File and FileReader objects. However, keep in mind that client-side JavaScript has limited access to the user's file system due to security restrictions. Therefore, file reading and writing in JavaScript is usually done in the context of web applications, where the user is prompted to select a file or grant permission to the application to access certain files.

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

**Ans:**

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.

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

**Ans:**

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?**

**Ans:**

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?**

**Ans:**

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

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

**Ans:**

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?**

**Ans:**

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?**

**Ans:**

* Disadvantages of innerHTML

1. Event handlers attached to any DOM element are preserved.
2. Replacement is done everywhere.
3. It is not possible to append innerHTML.
4. Breaks the document.
5. Used for Cross-site Scripting.