**ASSIGNMENT-1**

**MODULE\_6: Javascript basic & Dom**

**Q.1 what is java script ?**

**ANS:-**  Javascript is client side scripting language.

Javascript is used to as programing languages

Javascript top 3 best language in the world

Javascript most popular language used in frontend development

Javascript is used to load dynamic content is our website

Javascript is case-senstive language

**Q.2 What is The Use Of Is NaN function In Javascript ?**

**ANS:-** The NaN () function determines whether a value in NaN when covered to a number.

**Q.3 What Is Negative Inifinty ?**

**ANS:-** NEGATIVE\_INIFINTY is a special numeric value that is returned when an arithmetic operation or mathematical function generates a negative value greater then the largest representable number in javascript

**Q.4 Which Company Devloped Javascript?**

**ANS:-**  The first javascript engine was created by Brendan eich at netscape communications corporation.

**Q.5 What Are Undeclered And Undefind Variables?**

**ANS:-**  Undefined: it occurs when a variable has been declared but has not been assigned any value. Undefined is not a keyword. Undeclared: it occurs when we try to access any variable that is not initialized or declared earlier using the var or const keyword.

**Q.6 Write The Code For Adding New Elements Dynamically?**

**ANS:-** <!DOCTYPE html>

<html>

<head>

    <meta charset='utf-8'>

    <meta http-equiv='X-UA-Compatible' content='IE=edge'>

    <title>adding html elements dynamically</title>

    <meta name='viewport' content='width=device-width, initial-scale=1'>

    <link rel='stylesheet' type='text/css' media='screen' href='main.css'>

    <script src='main.js'></script>

    <style>

        h1

        {

            color: gray;

            display: flex;

            justify-content: center;

        }

        #button

        {

            display: block;

            margin: auto;

        }

        #innerdiv

        {

           display: flex;

           flex-direction: column;

           justify-content: center;

           align-items: center;

        }

    </style>

</head>

<body>

    <h1>Hello Google</h1>

    <div class="innerdiv"></div>

    <button id="button">

        click to add HTML elements

    </button>

    <script>

         document.getElementById("button")

         addEventListener("click",function(){

            document.getElementById("innerdiv").innerHTML +=

            "<h3> Hello </h3> <p> start your learning journey today </p>";

                     });

        </script>

</body>

</html>

**Q.7 What Is The Different Between ViewState And Sessionstate?**

**ANS:-** The basic difference between these two is that the viewstate is to manage state at the client’s end, macking state management easy for end-user while sessionstate manages state at the server’s end, making it easy o manage content from this end.

**Q.8 What Is Operator?**

**ANS:-** Javascript operator is used to Assign values,comparevalues,perform arithmetic operations,and oprand some actions

**Types of operators:**

1. Airthmatic operator:

EX: **+,-,\*,%,/**

1. Assignment Operator:

EX: **=,==,!=**

1. Comparision operator:

EX: **>**,>=,<,<=,!=,===

1. Logical operator:

EX: **&&,||,!**

1. Ternary/conditional operator:

EX:  **?:**

1. Increment/decrement operator:

EX: **++,--**

1. Sorthand operator:

EX: **+=,-=,\*=,%=,/=**

H) string concatenate operator:

EX: **+,**

**Q.9 How Can The Style/Class Of an Element Be Changed ?**

**ANS:-** getElementById() method is used to return the element in the document with the “id” attritube and the “className” attritube can be used to change/append the class of the element.

**Q.10 How to read And Write a File Using JavaScript?**

**ANS:-**

1. Using javaScript extensions (run from javaScript Editor)

2) Using a web page and activex objects (internet explorer only)

**EXAMPLE for reading the file :-**

File=fopen(getScriptPath(),0);

The Function fread() is used for reading the file content.

**EXAMPLE for write the file :-**

Str=fread(file,flength(file);

The function fwrite() is used to write the contents to the file.

**Q.11 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.

**Do/while:-**  also loops through a block of code while a specified condition is true.

**Q.12 how can you convert the string of any base to an integer in javaScript?**

**ANS:-** using the parseint() method: javaScript parseInt() method is used to accept the string and radix parameter and convert it into an integer.

**Q.13 What is the function of the delete operator?**

**ANS:-** Using the delete operator on an object deallocates its memory. A program that dereferences a pointer after the object is deleted can have unpredictable results or crash.

**Q.14 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.

**Example: 1. Alert Box function**

<!DOCTYPE html>

<html>

<head>

<title>Pop-up Box type | Alert Box</title>

<style>

h1{

color:green;

}

</style>

</head>

<body>

<center>

<h1>GeeksforGeeks</h1>

<h3>Alert Box</h3>

<button onclick="geekAlert()">

Click here for alert box

</button>

Alert box function

<script>

function geekAlert() {

alert("An Online Computer Science"

+ "Portal for Geeks");

}

</script>

</center>

</body>

</html>

**Example: 2. Alert Box function:**

<!DOCTYPE html>

<html>

<head>

<title>

Pop-up Box type | Prompt Box

</title>

<style>

h1 {

color: green;

}

</style>

</head>

<body>

<center>

<h1>GeeksforGeeks</h1>

<h3>Prompt Box</h3>

<input type="button" onclick="geekPrompt();"

value="Click here for Prompt box"/>

Prompt box function

<script>

function geekPrompt() {

let x = prompt("Enter your mail here : ");

document.write("Your ID : " + x);

}

</script>

</center>

</body>

</html>

**Example: 3 Confirm Box function**

<!DOCTYPE html>

<html>

<head>

<title>

Pop-up Box type | Confirm Box

</title>

<style>

h1 {

color: green;

}

</style>

</head>

<body>

<center>

<h1>GeeksforGeeks</h1>

<h3>Confirm Box</h3>

<button onclick="geekConfirm()">

Click here for Confirm box

</button>

<p id="geek"></p>

Confirm box function

<script>

function geekConfirm() {

var x;

if (confirm("Press a button!") == true) {

x = "OK pressed!";

} else {

x = "Cancel!";

}

document.getElementById("geek").innerHTML = x;

}

</script>

</center>

</body>

</html>

**Q.15 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

**Q.16 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.

**Q.17 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.

**Q.18 What is negetive inifinty ?**

**ANS:-**

<!DOCTYPE html>

<html>

<body>

<p>Click the radio button to toggle between password visibility:</p>

Password: <input type="password" value="FakePSW" id="myInput"><br><br>

<input type="checkbox" onclick="myFunction()">Show Password

<script>

function myFunction() {

var x = document.getElementById("myInput");

if (x.type === "password") {

x.type = "text";

} else {

x.type = "password";

}

}

</script>

</body>

</html>