Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

AY: 2025-26

Class:	TE	Semester:	V
Course Code:	CSC502	Course Name:	WC

Name of Student:	Shreya Sandeep Yadav
Roll No. :	80
Experiment No.:	04
Title of the Experiment:	To implement Javascript basics.
Date of Performance:	06/08/25
Date of Submission:	13/08/25

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Performance	5	
Understanding	5	
Journal work and timely submission	10	
Total	20	

Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Performance	4-5	2-3	1
Understanding	4-5	2-3	1
Journal work and timely submission	8-10	5-8	1-4

Checked by

Name of Faculty : Ms. Kshitija Gharat

Signature :

Date:

Aim - To implement Javascript basics

Objective -
1. The objective of this experiment is to understand the basic function used in Javascript
2. Understand how to use the different basic functions for creating web applications.

Requirement -
1. An editor (Visual Studio Code)
2. Browser (Google Chrome)

Theory -
JavaScript is a lightweight, cross-platform, and interpreted compiled programming language which is also known as the scripting language for web pages. It is well-known for the development of web pages, many non-browser environments also use it. JavaScript can be used for Client-side developments as well as Server-side developments. Javascript is both an imperative and declarative type of language. JavaScript contains a standard library of objects, like Array, Date, and Math, and a core set of language elements like operators, control structures, and statements.

Code: Html code
 Html code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h2>JavaScript variables</h2>
  <p id="demo"></p>
  <h2>Javascript Function</h2>
  <p id="demo1"></p>
  <h2>Javascript Condition(if..else)</h2>
  <p id="demo2"></p>
  <h2>Javascript loop(for loop)</h2>
  <p id="demo3"></p>
  <h2>JavaScript events</h2>
  <button onclick="document.getElementById('demo4').innerHTML=Date()">The time is?</button>
  <p id='demo4'></p>
  <h2>Javascript DOM CSS</h2>
  <h1 id="id1">My Heading 1</h1>
<button type="button" onclick="document.getElementById('id1').style.color = 'red'">Click Me!</button>
  <p id="p1">Hello World!</p>
```

```html
<p>The paragraph above was changed by a script.</p>
<p>Please input a number between 1 and 10:</p>
<input id="numb">
<button type="button" onclick="myFunction()">Submit</button>
<p id="demo5"></p>
<script src="java1.js"></script>
</body>
</html>
```

Javascript code

```javascript
var x = 5;
var y = 6;
var z = x + y;
document.getElementById("demo").innerHTML =
"The value of z is: " + z;
function myFunction(p1, p2) {
  return p1 * p2;
}
document.getElementById("demo1").innerHTML = "the value of function multiplication is:" +
myFunction(4, 3);
var a=4;
var b="";
if(a%2==0){
  b="even no";
}else{
  b="odd no";
}
document.getElementById("demo2").innerHTML = "the number is: " +b;
const cars = ["python", "java", "C", "C++", "HTML", "React"];
let text = "";
for (let i = 0; i < cars.length; i++) {
  text += cars[i] + "<br>";
}
document.getElementById("demo3").innerHTML = text;
document.getElementById("p1").innerHTML = "Kavya Naik"
function myFunction() {
  // Get the value of the input field with id="numb"
  let x = document.getElementById("numb").value;
  // If x is Not a Number or less than one or greater than 10
  let text;
  if (isNaN(x) || x < 1 || x > 10) {
        text = "Input not valid";
  } else {
        text = "Input OK";
  }
```

```
document.getElementById("demo5").innerHTML = text;
}
```

Program-

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>JavaScript Basics Example</title>
</head>
<body>

  <h1>JavaScript Basics </h1>
  <p id="message">Click the button to see JavaScript in action!</p>

  <!-- Button to call JS function -->
  <button onclick="showMessage()">Click Me</button>
  <button onclick="changeColor()">Change Background</button>

  <script>
    // 1. Display a simple alert
    alert("Welcome to JavaScript Basics!");

    // 2. Variables and Data Types
    let name = "Nikhil";
    let age = 21;
    let isStudent = true;

    console.log("Name:", name);
    console.log("Age:", age);
    console.log("Is Student:", isStudent);

    // 3. Simple Function
    function showMessage() {
      document.getElementById("message").innerHTML = "Hello " + name+ "";
    }

    // 4. Change Background Color (DOM Manipulation)
    function changeColor() {
      document.body.style.backgroundColor = "lightblue";
    }
  </script>
```
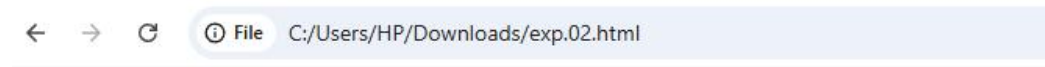
</body>
</html>

OUTPUT-

← → C ⓘ File C:/Users/HP/Downloads/exp.02.html

JavaScript Basics

Click the button to see JavaScript in action!

| Click Me | Change Background |

← → C ⓘ File C:/Users/HP/Downloads/exp.02.html

JavaScript Basics

Hello Shreya

| Click Me | Change Background |

Conclusion - Javascript is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages.