

Experiment 4

Aim: To implement Javascript basics

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:

```
<!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>
   <h2>Javascript Function</h2>
   <h2>Javascript Condition(if..else)</h2>
   <h2>Javascript loop(for loop)</h2>
   <h2>JavaScript events</h2>
   <button onclick="document.getElementById('id1').style.color = 'red'">
     Click Me!
```

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```
</button>
    <h2>Javascript DOM CSS</h2>
    <h1 id="id1">My Heading 1</h1>
    Hello World!
    The paragraph above was changed by a script.
    Please input a number between 1 and 10:
    <input id="num">
    <button type="button" onclick="myFunction()">Submit</button>
    <script src="first.js"></script>
  </body>
</html>
Javascript Code:
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 = "Mokshad Sankhe";
function myFunction() {
// Get the value of the input field with id="numb"
 let num = document.getElementById("num").value;
 // If num is Not a Number or less than one or greater than 10
 let text;
 if (isNaN(num) || num < 1 || num > 10) {
  text = "Input not valid";
 } else {
  text = "Input OK";
 document.getElementById("demo5").innerHTML = text;
```



Output:
JavaScript variables
The value of z is: 11
Javascript Function
the value of function multiplication is:undefined
Javascript Condition(ifelse)
the number is: even no
Javascript loop(for loop)
python java C C++

JavaScript events

Click Me!

HTML React

Javascript DOM CSS

My Heading 1

Mokshad Sankhe

The paragraph above was changed by a script.

Please input a number between 1 and 10:

2 Submit

Input OK

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

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