



<b>Experiment No. 4</b>
Javascript: Variables, Operators, Conditions, Loops, Functions, Events, Classes and Objects, Error handling, Validations, Arrays, String, Date
Name: <b>Pratik Mankar</b>
Roll Number: <b>34</b>
Date of Performance: 31/7/25
Date of Submission: 7/8/25
Marks:



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

```
<!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>`

`<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

```
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;

}
```

Output:



← → ↻ ⓘ File C:/Users/Asus/Downloads/exp4.html

## Javascript Function

## Javascript Condition(if..else)

## Javascript loop(for loop)

## JavaScript events

The time is?

Tue Oct 14 2025 17:16:03 GMT+0530 (India Standard Time)

## Javascript DOM CSS

## My Heading 1

Click Me!

pratik mankar

The paragraph above was changed by a script.

Please input a number between 1 and 10:

2

Submit

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