

NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 03

-----CODE-----

```
<html>
<head>
  <title> Experiment No 3</title>
</head>
<h1> String Operations</h1>
<br>
<body>
  <label> Enter the Sring</label>
  <input id ="base">
  <br>
  <br>
  <h2> Using for Loop</h2>
  <button type="submt" onclick="reverse()">Reverse</button>
  <h3 id="try"></h3>
  <br>
  <h2> Using Built in function</h2>
  <button type="submit" onclick="bultin()">Reverse</button>
  <h3 id="me"></h3>
  <br>
  <h2> Using Replace function</h2>
  <br>
  <label> Enter the Charcater to be Remove</label>
  <input id ="remove">
  <br>
  <br>
  <label>Enter the Charcater to be Added</label>
  <input id ="add">
  <br>
  <br>
  <button type="submit" onclick="rep()">Replace & add</button>
  <h3 id="result1"></h3>
  <h2> Using Replaceall function</h2>
  <br>
  <br>
  <label> Enter the Charcater to be Remove</label>
  <input id ="remov">
  <br>
```

```

<br>
<label>Enter the Charcater to be Added</label>
<input id ="ad">
<br>
<br>
<button type="submit" onclick="repall()">Replace & add</button>
<h3 id="result2"></h3>
<br>
<h2> Check String is Palindrome or Not </h2>
<button type="submit" onclick="check()">Check</button>
<h3 id="result3"></h3>
<script>
// Using For loop
function reverse()
{
    var str=(document.getElementById("base").value);
    let reversedStr = "";
    for (let i = str.length - 1; i >= 0; i--) {
        reversedStr += str[i];
    }
    document.getElementById("try").innerHTML ="Reverse String is "+ reversedStr;
    return reversedStr;
}
// Built in Function
function bultin(){
    var str=(document.getElementById("base").value);
    const arr=str.split("");
    const arr1=arr.reverse();
    const join=arr1.join("");
    document.getElementById("me").innerHTML ="Reverse String is "+ join;
}

function rep(){
    var str=(document.getElementById("base").value);
    var str1=(document.getElementById("remove").value);
    var str2=(document.getElementById("add").value);
    var newstr=str.replace(str1, str2);
    document.getElementById("result1").innerHTML ="New String is "+ newstr;
}
function repall(){
    var str=(document.getElementById("base").value);
    var str1=(document.getElementById("remov").value);

```

```

var str2=(document.getElementById("ad").value);

var newstr1=str.replaceAll(str1,str2);

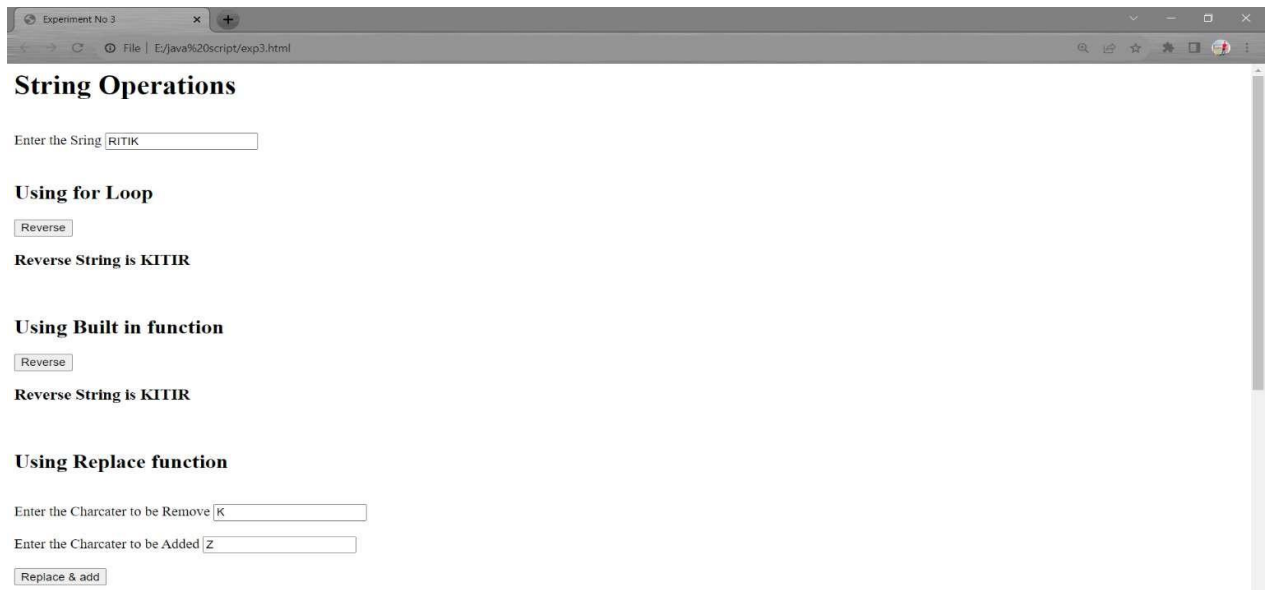
document.getElementById("result2").innerHTML ="New String is "+ newstr1;
}

function check()
{
var str=(document.getElementById("base").value);
var str1=reverse();
if(str==str1){
document.getElementById("result3").innerHTML =" String is Palindrome ";
}
else{
document.getElementById("result3").innerHTML =" String is not Palindrome ";
}
}

</script>
</body>
</html>

```

-----OUTPUT-----



Experiment No 3

E:/java%20script/exp3.html

Using Replace function

Enter the Charcater to be Remove

Enter the Charcater to be Added

Replace & add

New String is RITIZ

Using Replaceall function

Enter the Charcater to be Remove

Enter the Charcater to be Added

Replace & add

New String is RTTTK

Check String is Palindrome or Not

Check

String is not Palindrome

Experiment No 3

E:/java%20script/exp3.html

String Operations

Enter the Sring

Using for Loop

Reverse

Reverse String is MADAM

Using Built in function

Reverse

Reverse String is MADAM

Using Replace function

Enter the Charcater to be Remove

Enter the Charcater to be Added

Replace & add

Experiment No 3

E:/java%20script/exp3.html

Using Replace function

Enter the Charcater to be Remove

Enter the Charcater to be Added

Replace & add

New String is AADAM

Using Replaceall function

Enter the Charcater to be Remove

Enter the Charcater to be Added

Replace & add

New String is MMDMM

Check String is Palindrome or Not

Check

String is Palindrome

NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 04

-----CODE-----

```
<html>
<head>
  <title> Experiment No 3</title>
</head>
  <h1> String Comparison </h1>

  <br>
  <body>
    <h3> <label>Enter the first String</label>
    <input id ="firststr"></h3>

    <h3><label>Enter the Second String</label>
    <input id ="secondstr"></h3>

    <br>

    <h2> Mathematical Operations</h2>
    <br>
    <button type="submit" onclick="compare()">Compare</button>
    <h4 id="try"></h4>
    <br>

    <h2> Strict Equality Operator</h2>
    <br>
    <button type="submit" onclick="strictequality()">Compare</button>
    <h4 id="result"></h4>
    <br>

    <h2> Using match method</h2>
    <br>
    <button type="submit" onclick="match()">Compare</button>
    <h4 id="result1"></h4>
    <br>

    <h2> Using matchAll method</h2>
    <br>
    <button type="submit" onclick="matchall()">Compare</button>
    <h4 id="result2"></h4>
    <br>
    <h2> Using localeCompare method</h2>
    <br>
    <button type="submit" onclick="localcompare()">Compare</button>
```

```
<h4 id="result3"></h4>
```

```
<script>
function compare()
{
    var str1=(document.getElementById("firststr").value);
    var str2=(document.getElementById("secondstr").value);
    if(str1>str2)
    {
        document.getElementById("try").innerHTML =" String 1 is greater then String 2 ";
    }
    else if(str1<str2){
        document.getElementById("try").innerHTML =" String 2 is greater then String 1 ";
    }
    else{
        document.getElementById("try").innerHTML ="Both String are equal "
    }
}
function strictequality()
{
    var str1=(document.getElementById("firststr").value);
    var str2=(document.getElementById("secondstr").value);
    if(str1===str2)
    {
        document.getElementById("result").innerHTML ="Both String are equal ";
    }
    else{
        document.getElementById("result").innerHTML ="String are not Equal";
    }
}
function match()
{
    var str1=(document.getElementById("firststr").value);
    var str2=(document.getElementById("secondstr").value);
    let result= str1.match(str2);
    var cmp ;
    let y=str1.indexOf(result);
    if(result!=str2){
        cmp="String 1 is not machting with string 2";
    }
    else
    {
        cmp="String 1 is matching with string 2 <br>Index : "+y+"<br>"+ " Element : "+ result;
    }
    document.getElementById("result1").innerHTML = cmp ;
}

function matchall()
{

```

```

var str1=(document.getElementById("firststr").value);
var str2=(document.getElementById("secondstr").value);
var cmp;
var result=str1.matchAll(str2);
var y=" ";
for(var x of result)
{
    y=y+x.index + " "

}
if(x!=str2){
    cmp="String 1 is not matching with string 2";
}
else{
    cmp="String 1 is matching with string 2 <br>Index : "+y+"<br>"+ " Element : "+ x;
}
document.getElementById("result2").innerHTML = cmp ;

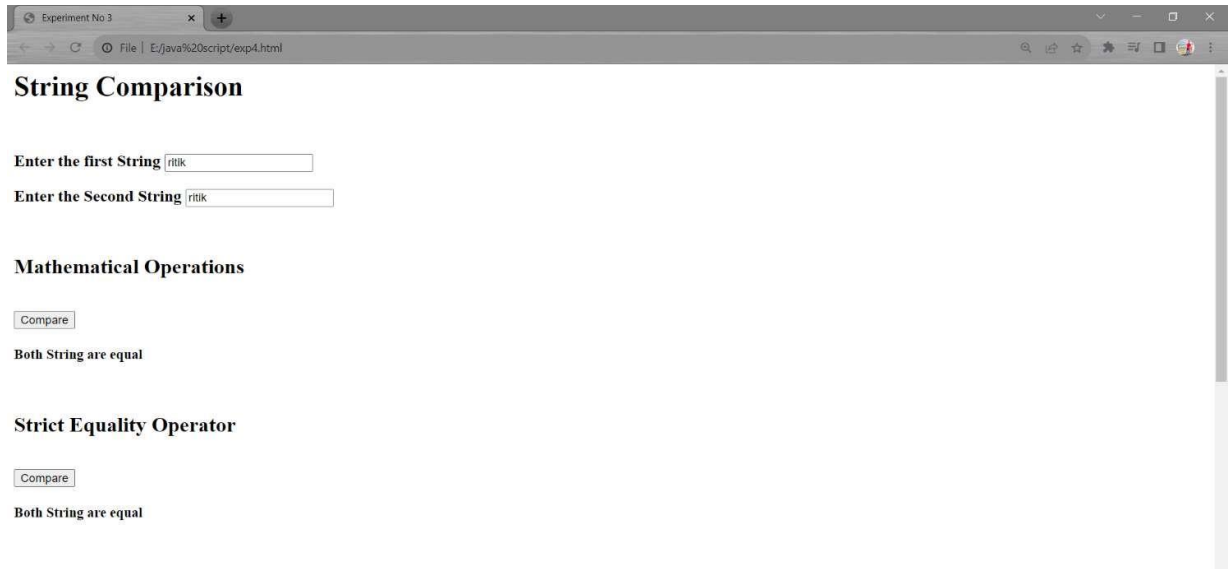
}

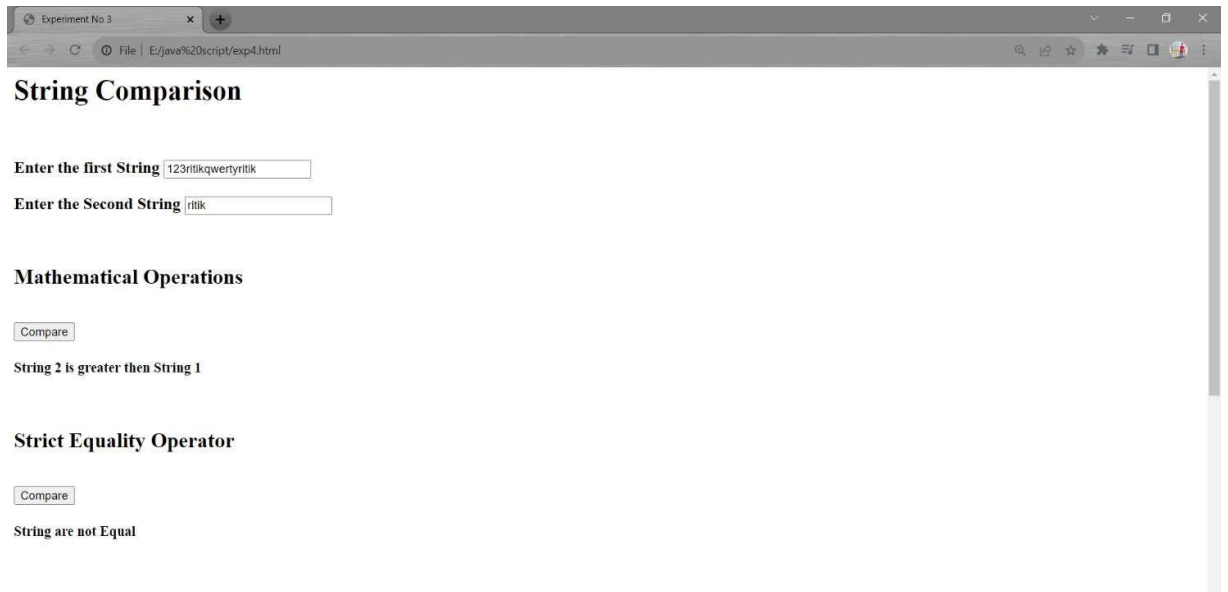
function localcompare()
{
    var str1=(document.getElementById("firststr").value);
    var str2=(document.getElementById("secondstr").value);
    var str3=str1.localeCompare(str2);
    var cmp;
    if(str3==0)
    {
        cmp=str3+ " , Means string 1 is equal to string 2 ";
    }
    else if(str3==1)
    {
        cmp=str3+", Means string 2 is gerater then string 1";
    }
    else{
        cmp=str3+", Means String 1 is gerater then string 2";
    }
    document.getElementById("result3").innerHTML = cmp ;
}

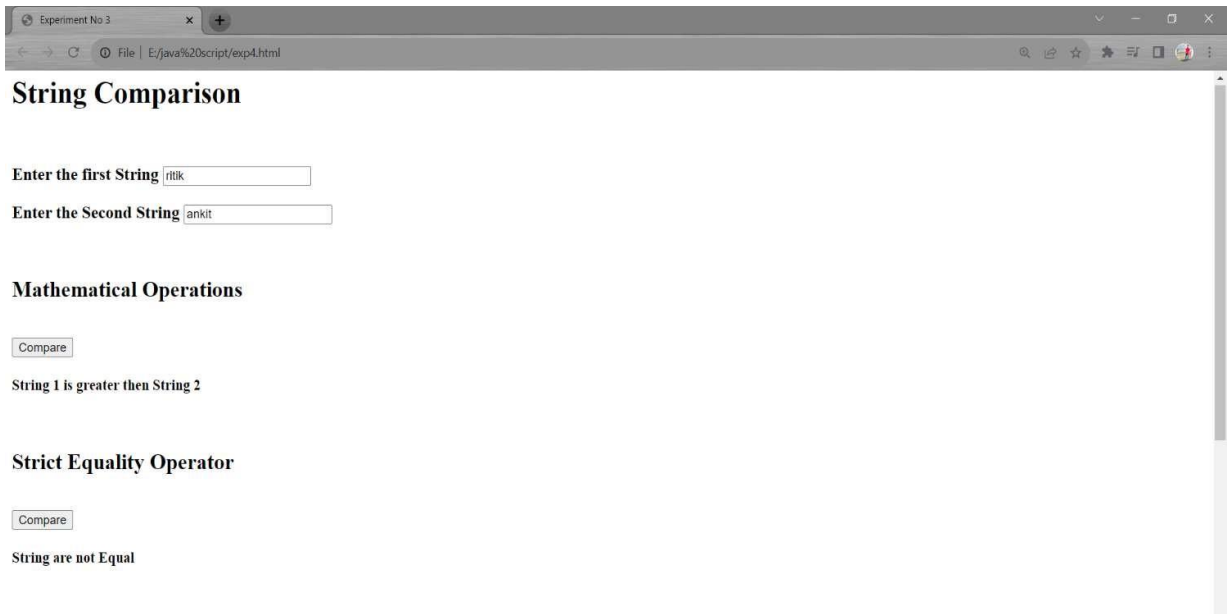
</script>

```

-----OUTPUT-----







NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 05

-----CODE-----

```
<html>
<head>
  <title>Countdown Timer</title>
</head>
<body>
  <div class="timer-container">
    <h1>Countdown Timer</h1>
    <h2><label for="expiry-input">Enter Timer Expiry Date and Time (YYYY-MM-DD
    HH:MM:SS):</label></h2>
    <input type="text" id="expiry-input" placeholder="YYYY-MM-DD HH:MM:SS">
    <button id="start-button">Start Countdown</button>
    <div class="timer">
      <br>
      <br>
      <h1 id="days">00 : 00 : 00 : 00</h1>
      <h1 id="me">Message Loading.....</h1>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

```

let expiryDate = 0;
let timerInterval;

document.getElementById("start-button").addEventListener("click", function () {
    const inputDate = document.getElementById("expiry-input").value;
    const parsedDate = new Date(inputDate).getTime();
    if (!isNaN(parsedDate) && parsedDate > new Date().getTime()) {
        expiryDate = parsedDate;
        clearInterval(timerInterval);
        timerInterval = setInterval(updateTimer, 1000);
    } else {
        document.getElementById("me").textContent = "Please enter a valid future date and
time.";
    }
});

function updateTimer() {
    const currentDate = new Date().getTime();
    const difference = expiryDate - currentDate;
    if (difference <= 0) {
        clearInterval(timerInterval);
        document.getElementById("me").textContent = "WELCOME RITIK";
    } else {
        const days = Math.floor(difference / (1000 * 60 * 60 * 24));
        const hours = Math.floor((difference % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
        const minutes = Math.floor((difference % (1000 * 60 * 60)) / (1000 * 60));
        const seconds = Math.floor((difference % (1000 * 60)) / 1000);
        document.getElementById("days").textContent = days + " : " + hours + " : " + minutes + " : " +
seconds;
    }
}

```

-----OUTPUT-----



Countdown Timer

Enter Timer Expiry Date and Time (YYYY-MM-DD HH:MM:SS):

2023-08-30 20:15 Start Countdown

0 : 0 : 0 : 25

Message Loading.....



Countdown Timer

Enter Timer Expiry Date and Time (YYYY-MM-DD HH:MM:SS):

2023-08-30 20:15 Start Countdown

0 : 0 : 0 : 1

Message Loading.....





Countdown Timer

Enter Timer Expiry Date and Time (YYYY-MM-DD HH:MM:SS):

0 : 0 : 0 : 0

WELCOME RITIK



Countdown Timer

Enter Timer Expiry Date and Time (YYYY-MM-DD HH:MM:SS):

0 : 0 : 0 : 0

Please enter a valid future date and time.



NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 06

-----CODE-----

```
<html>

<head>

    <title> Experiment No 6</title>

</head>

    <h1> Array Operations</h1>

    <body>

        <label> Enter Array Element </label>

        <input id ="arr">

        <br>

        <button type="submt" onclick="arrayfrom()">Dispaly</button>

        <br>

        <h3 id="try"></h3>

        <br>

        <label> Enter Element to be Remove</label>

        <input id = "Remove">

        <br>

        <button type="submt" onclick="remove()">Remove</button>

        <br>

        <h3 id="try1"></h3>

        <br>

        <label> Enter Element to be Check</label>

        <input id = "check">

        <br>

        <button type="submt" onclick="check()">Check</button>

        <br>
```

```
<h3 id="try2"></h3>

<br>

<label> Empty Array</label>

<input id = "empty">

<br>

<button type="submt" onclick="empty()">Empty</button>

<br>

<h3 id="try3"></h3>
```

```
<script>

function arrayfrom(){

    var x=(document.getElementById("arr").value);

    var arr= x.split(',');

    document.getElementById("try").innerHTML ="Array is "+ arr;
```

```
}
```

```
function remove(){

    var x=(document.getElementById("arr").value);

    var arr= x.split(',');

    var y=(document.getElementById("Remove").value);

    var i=arr.indexOf(y);

    var myarray= arr.splice(i,1);


    document.getElementById("try1").innerHTML ="Array After Removing Element "+ arr;
```

```
}
```

```
function check(){
```



```
var x=(document.getElementById("arr").value);
var arr= x.split(',');
var y=(document.getElementById("check").value);
var i=arr.indexOf(y);
if(i!=-1){

    document.getElementById("try2").innerHTML ="Element not present in array ";
}
else{
    document.getElementById("try2").innerHTML ="Element is present at index :"+i;
}
}
function empty(){
    var x=(document.getElementById("empty").value);
    var arr= x.split(',');
    arr.length=0;
    document.getElementById("try3").innerHTML ="Array is Empty "+ arr;
}

</script>
</body>
</html>
```

-----OUTPUT-----

Experiment No 6

File | C:/Users/ANKIT%20SHARMA/Downloads/exp6.html

Array Operations

Enter Array Element

Array is 1,2,4,5,6

Enter Element to be Remove

Array After Removing Element 1,2,4,6

Enter Element to be Check

Element is present at index :2

Empty Array

Array is Empty

NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 07

-----CODE-----

```
<html>

<title>Experiment No:7</title>
<head>

    <h1>Object Array Demo</h1>
</head>
<body>
    <br>
    <h2><label for="field">Field:</label>
    <input type="text" id="field"></h2>
    <br>
    <h2><label for="value">Value:</label>
    <input type="text" id="value"></h2>
    <br>
    <button onclick="addObjectToArray()">Add to Array</button>
    <br>
    <h2>Array Contents:</h2>
    <h2 id="output"></h2>
    <br>
    <h2><label for="checkVariable">Check Variable:</label>
    <input type="text" id="checkVariable"></h2>
    <br>
    <br>
    <button onclick="checkInArray()">Check in Array</button>
```


<h2 id="result"></h2>

<script >

var objectArray = [];

// Function to add an object to the array

function addObjectToArray() {

var field = document.getElementById("field").value;

var value = document.getElementById("value").value;

// Create an object with the given field and value

var newObject = { field: field, value: value };

// Add the object to the array

objectArray.push(newObject);

// Clear input fields

document.getElementById("field").value = "";

document.getElementById("value").value = "";

// Display the updated array

displayArray();

}

function displayArray() {

var output = document.getElementById("output");

output.innerHTML = "";

objectArray.forEach(function(obj) {

var listItem = document.createElement("li");

listItem.textContent = JSON.stringify(obj);

```
        output.appendChild(listItem);
    });
}

// Function to check if a variable is in the array
function checkInArray() {
    var variableToCheck = document.getElementById("checkVariable").value;

    // Check if the variable is in the array
    var isInArray = objectArray.some(function(obj) {
        return obj.field === variableToCheck;
    });

    var result = document.getElementById("result");
    if (isInArray) {
        result.textContent = "Variable is in the array.";
    } else {
        result.textContent = "Variable is not in the array.";
    }
}

</script>
</body>
</html>
```

-----OUTPUT-----



Experiment No:7

File | C:/Users/ANKIT%20SHARMA/Downloads/exp7.html

Object Array Demo

Field:

Value:

Array Contents:

- {"field":"name,age,rollno","value":"ritik,21,30"}

Check Variable:

Variable is in the array.

NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 08

-----CODE-----

```
<html>
<head>
  <title> Experiment No 8</title>
</head>
<body>
  <h1 style="text-align: center;"><u>Experiment No: 8</u></h1>
  <br>
  <div id="div1" style="height: 100px; width: 100%; background-color:blueviolet"
onmousemove="changeDivColor();"
  onmouseout="this.style.backgroundColor='blue'">
    <h3 style="text-align: center;"><u>Mouseover</u></h3> </div>
  <br>
  <br>
  <br>
  <div style="text-align: center; height: 100px; width: 100%; background-color:grey" >
    <a style="height: 100%; width: 100%;" href="https://www.google.com" target="blank"
      onfocus="this.style.backgroundColor='blue'"
onblur="this.style.backgroundColor='red'">Onfocus</a>
  </div>
  <script>
    function changeDivColor(){
      div1.style.backgroundColor="grey";
    }
  </script>
</body>
```

-----OUTPUT-----



Experiment No: 8

Mouseover

Onfocus



Experiment No: 8

Mouseover

Onfocus



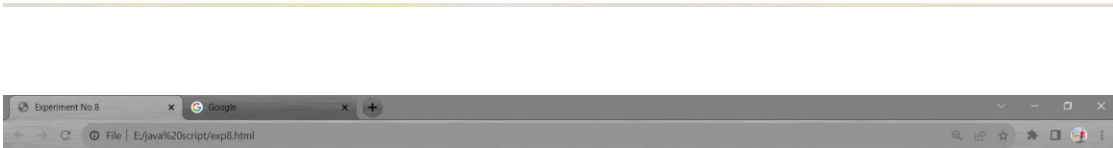
Experiment No: 8



Mouseover



Mouseover



Experiment No: 8



Mouseover



Mouseover

NAME : Bhos Sakshi Raghu

ROLL NO : 404D012

EXPERIMENT NO : 09

-----CODE-----

```
<html>
<head>
  <title> Experiment No 9</title>
</head>
<body>
<h1> Calculator Program in JavaScript </h1>
<div class= "formstyle">
<form name = "form1">
  <input id = "calc" type ="text" name = "answer"> <br> <br>
  <input type = "button" value = "1" onclick = "form1.answer.value += '1' ">
  <input type = "button" value = "2" onclick = "form1.answer.value += '2' ">
  <input type = "button" value = "3" onclick = "form1.answer.value += '3' ">
  <input type = "button" value = "+" onclick = "form1.answer.value += '+' ">
  <br> <br>

  <input type = "button" value = "4" onclick = "form1.answer.value += '4' ">
  <input type = "button" value = "5" onclick = "form1.answer.value += '5' ">
  <input type = "button" value = "6" onclick = "form1.answer.value += '6' ">
  <input type = "button" value = "-" onclick = "form1.answer.value += '-' ">
  <br> <br>

  <input type = "button" value = "7" onclick = "form1.answer.value += '7' ">
  <input type = "button" value = "8" onclick = "form1.answer.value += '8' ">
  <input type = "button" value = "9" onclick = "form1.answer.value += '9' ">
```

```
<input type = "button" value = "*" onclick = "form1.answer.value += '*' ">
```

```
<br> <br>
```

```
<input type = "button" value = "/" onclick = "form1.answer.value += '/' ">
```

```
<input type = "button" value = "0" onclick = "form1.answer.value += '0' ">
```

```
<input type = "button" value = "." onclick = "form1.answer.value += '.' ">
```

```
<!-- When we click on the '=' button, the onclick() shows the sum results on the calculator screen. ->
```

```
<input type = "button" value = "=" onclick = "form1.answer.value = eval(form1.answer.value) ">
```

```
<br> <br>
```

```
<!-- Display the Cancel button and erase all data entered by the user. -->
```

```
<input type = "button" value = "Clear All" onclick = "form1.answer.value = ' ' " id= "clear" >
```

```
<br>
```

```
</form>
```

```
</div>
```

```
</body>
```

```
</html>
```

-----OUTPUT-----



Calculator Program in JavaScript

Calculator Program in JavaScript

NAME : Sakshi Raghu Bhos

ROLL NO : 404D012

EXPERIMENT NO : 10

-----CODE-----

```
<!DOCTYPE html>

<html>

<head>

  <title>Experiment No 10</title>

</head>

<body>

  <h1>JavaScript Properties</h1>

  <h3 id="browserInfo"></h3>

  <h3 id="screenInfo"></h3>

  <h3 id="historyInfo"></h3>

  <h3 id="paragraphCount"></h3>

  <h3 id="replaceText">Original Text</h3>

  <script>

    const browserInfo = `Browser Name: ${navigator.appName}, Version: ${navigator.appVersion}`;

    document.getElementById('browserInfo').textContent = browserInfo;

    const screenInfo = `Screen Width: ${window.screen.width}, Screen Height: ${window.screen.height}`;

    document.getElementById('screenInfo').textContent = screenInfo;

    const historyInfo = `History Length: ${window.history.length}`;

    document.getElementById('historyInfo').textContent = historyInfo;

    const paragraphCount = document.getElementsByTagName('p').length;

    document.getElementById('paragraphCount').textContent = `Number of <p> tags:
    ${paragraphCount}`;

    const replaceTextElement = document.getElementById('replaceText');

    replaceTextElement.textContent = 'Replaced Text';
```

```
</script>
</body>
</html>
```

-----OUTPUT-----



JavaScript Properties

Browser Name: Netscape, Version: 5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/117.0.0.0 Safari/537.36

Screen Width: 1536, **Screen Height:** 864

History Length: 1

Number of <p> tags: 0

Replaced Text

