

Ex. No. 5**Integrating Dynamic Actions using JavaScript****Date of Exercise****07-09-22****Web Host Link****<https://github.com/apple0291sandra/Exp5a.html-URK20CS1080-.git>****Video Link :****https://drive.google.com/file/d/1ayx6_s5gI5o5PkVnP71I3p9sz2wdbRza/view?usp=sharing****Aim**

Create a web page with JavaScript program to perform basic mathematic operations such as addition, subtraction, multiplication, and division for the two given numbers.

Description**document.getElementById("x"):**

The getElementById() method returns an element with a specified value.

The getElementById() method returns null if the element does not exist.

The getElementById() method is one of the most common methods in the HTML DOM. It is used almost every time you want to read or edit an HTML element.

Function:

A JavaScript function is defined with the function keyword, followed by a name, followed by parentheses ().

Function names can contain letters, digits, underscores, and dollar signs (same rules as

variables).

The parentheses may include parameter names separated by commas: (parameter1, parameter2, ...)

The code to be executed, by the function, is placed inside curly brackets: { }

Syntax:

```
function name(parameter1, parameter2, parameter3) {  
    // code to be executed }
```

onclick: The onclick event occurs when the user clicks on an element.

Onkeyup: The onkeyup event occurs when the user releases a key (on the keyboard).

Onchange: The onchange event occurs when the value of an element has been changed. For radiobuttons and checkboxes, the onchange event occurs when the checked state has been changed.

Program:

```
<!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">  
  
  <script>  
    function add(){  
      var a = parseInt(document.getElementById('t1').value);  
      var b = parseInt(document.getElementById('t2').value);  
      var sum = a+b;  
      document.getElementById('result').value=sum;  
    }  
    function subtract(){  
      var a = parseInt(document.getElementById('t1').value);  
      var b = parseInt(document.getElementById('t2').value);  
      var sum = a-b;  
      document.getElementById('result').value=sum;  
    }  
    function divide(){  
      var a = parseInt(document.getElementById('t1').value);  
      var b = parseInt(document.getElementById('t2').value);  
      var sum = a/b;
```

```
document.getElementById('result').value=sum;
}
function multiplication(){
var a = parseInt(document.getElementById('t1').value);
var b = parseInt(document.getElementById('t2').value);
var sum = a*b;
document.getElementById('result').value=sum;
}
function clear(){
var a=document.getElementById('t1').value='';

var b=document.getElementById('t2').value='';
}
</script>
</head>
<body style="border: blue solid 5px; margin:190px; padding:40px;">

<h2 style= "text-align: center;">Sample calculator</h2>
<label style="color: blue;">Number1</label><input type="text" id="t1">
<label style="color: blue;">Number2</label><input type="text"
id="t2"><br><br>

<button onclick="add()" style="background-color: blue;color:
white;">addition</button>
<button onclick="subtract()" style="background-color: blue;color:
white;">subtract</button>
<button onclick="divide()" style="background-color: blue;color:
white;">division</button>
<button onclick="multiplication()" style="background-color: blue;color:
white;">multiplication</button><br><br>

<label style="color: blue;">Result</label><input type="text" id="result"
readonly>
<button onclick="clear()" style="background-color:red;color:
white;">clear</button>

</body>
</html>
```

Output:

Sample calculator

Number1: Number2:

Result:

Result:

The web page is created successfully.