

# Practical of Web Engineering

## Practical no 08

**Objective: TO DEVELOP DHTML BASED WEBPAGES**

**Exercise 8.1: Make a webpage, generate an alert box when the user setFocus on an input box.**

**Answer:**

**Code:**

**index.html**

```
<!DOCTYPE html>

<html>

<head>

    <title>Lab-8</title>

    <link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

    <fieldset>

        <legend>On Focus</legend>

        <form>

            <label for="in1">Name: </label>

            <input type="text" name="nam" id="name" onfocus="alertFunction()">

            <label for="in2">Father's Name: </label>

            <input type="text" name="fname" id="fname" onfocus="alertFunction()">

        </form>

    </fieldset>

    <script src="app.js"></script>

</body>

</html>
```

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## Style.css

```
fieldset{  
  
    width: fit-content;  
  
    height: auto;  
  
    margin: 30px 0 0 30px;  
  
    }  
  
    input {  
  
    display: block;  
  
    }  
  
    legend {  
  
    color: #169df6;  
  
    font-size: 1.4rem;  
  
    }
```

## App Js

```
function alertFunction() {  
  
    alert("Hello 18CS08");  
  
    }
```

## Output:

On Focus

Name:

Father's Name:

127.0.0.1:5500 says

Hello 18CS08

OK

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**Exercise 8.2:** Make a webpage having a single button. If the user clicks 1 st time on the button then the background color of the page should be changed to sky blue, when the user press 2 nd time on the button then the background color of the page color should be changed to orange color/any other color of your choice.

**Answer:**

**Code:**

index.html

```
<!DOCTYPE html>

<html>

<head>

    <title>Lab-8</title>

    <link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

    <div id="changeBGColor">

        <input id="btn" type="button" value="CHANGE BACKGROUND COLOR" onclick="click1()" ondblclick="click2()">

    </div>

    <script src="app.js"></script>

</body>

</html>
```

Style.css

```
#changeBGColor {

    height: 97.5vh;

    text-align: center;

}

#btn {border-radius: 3px;

    padding: 30px;

    cursor: pointer;

    margin-top: 20%;

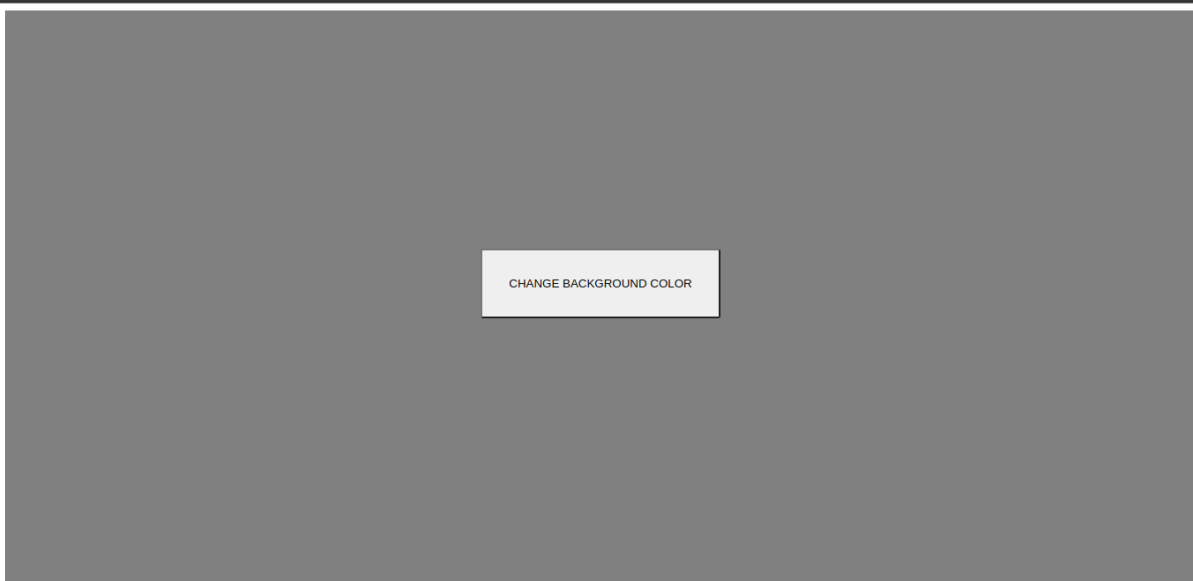
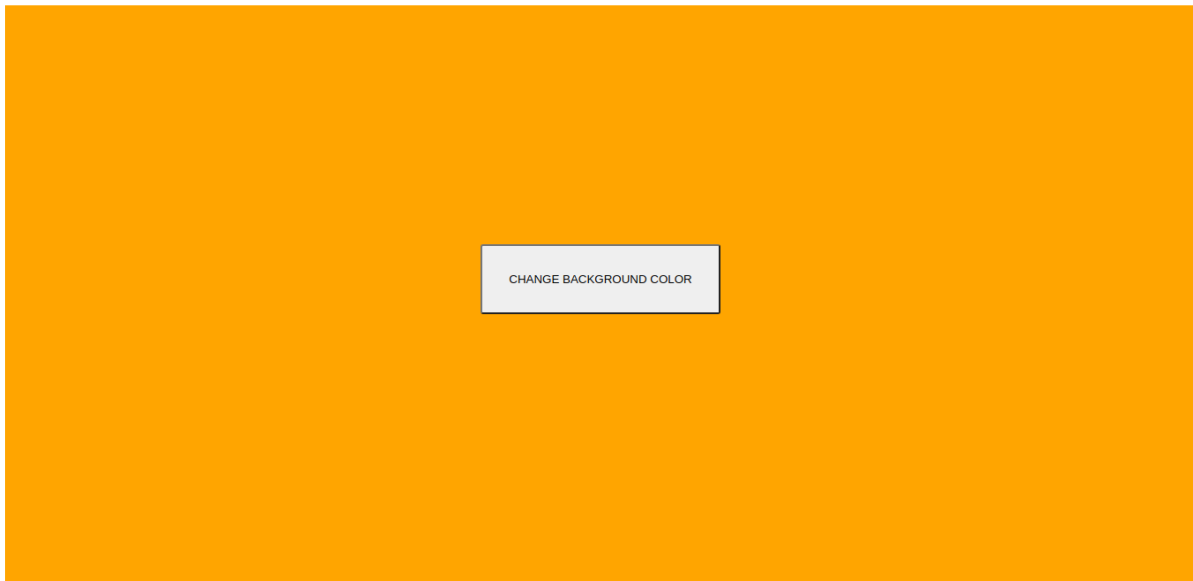
}
```

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App.Js

```
function click1() {  
  
    var skyblue = document.getElementById("changeBGColor").style.backgroundColor = "grey";  
  
}  
  
function click2() {  
  
    var purple = document.getElementById("changeBGColor").style.backgroundColor = "orange";  
  
}
```

Output:



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**Exercise 8.3:** Create a calculator in JavaScript by using the functions including some styles

(e.g.; Background color, font size, borders, etc.)

**Answer:**

**Code:**

**Index.html**

```
<!DOCTYPE html>

<html>

<head>

  <title>Lab-8</title>

  <link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

  <div id="hd">

    <h1 id="head1">Simple Calculator</h1>

  </div>

  <div id="vals">

    <input type="text" id="txt1">

    <input type="text" id="txt2">

  </div>

  <div id="btns">

    <input type="button" value="+" onclick="add()">

    <input type="button" value="-" onclick="subtract()">

    <input type="button" value="*" onclick="multiply()">

    <input type="button" value="/" onclick="divide()">

  </div>

  <div id="ans">

    <input type="text" id="txt3">

  </div>

</body>

</html>
```

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```
<script src="app.js"></script>

</body>

</html>
```

### style.css

```
body {

    background-color: rgb(100, 200, 114);

    font-size: 1rem;

    font-style: italic;

}

#head1 {

    margin-left: 40%;

    margin-top: 15%;

}

#vals {

    margin-left: 35%;

    margin-top: 50px;

}

#btns {

    margin-left: 45%;

    margin-top: 30px;

}

#ans {

    margin-left: 42%;

    margin-top: 30px;

}

#txt2 {

    margin-left: 10px;

}
```

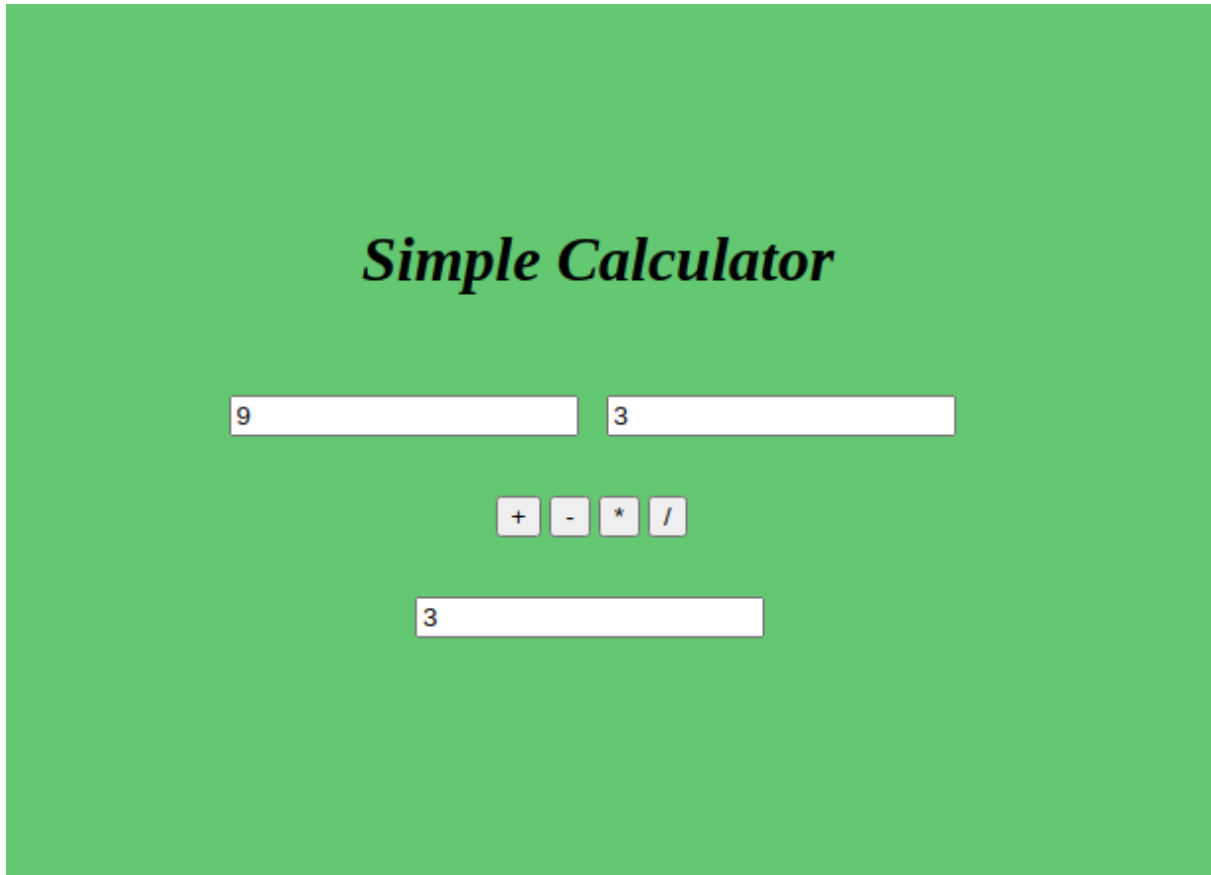
## Practical of Web Engineering

app.js

```
function add() {  
  
    var val1 = document.getElementById("txt1").value;  
  
    var val2 = document.getElementById("txt2").value;  
  
    var plus = +val1 + +val2;  
  
    var answer = document.getElementById("txt3").value = plus;  
  
}  
  
function subtract() {  
  
    var val1 = document.getElementById("txt1").value;  
  
    var val2 = document.getElementById("txt2").value;  
  
    var answer = document.getElementById("txt3").value = val1 - val2;  
  
}  
  
function multiply() {  
  
    var val1 = document.getElementById("txt1").value;  
  
    var val2 = document.getElementById("txt2").value;  
  
    var answer = document.getElementById("txt3").value = val1 * val2;  
  
}  
  
function divide() {  
  
    var val1 = document.getElementById("txt1").value;  
  
    var val2 = document.getElementById("txt2").value;  
  
    var answer = document.getElementById("txt3").value = val1 / val2;  
  
}
```

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Output:



The image shows a web application titled "Simple Calculator" on a green background. The title is in a large, bold, italicized black font. Below the title, there are two input fields: the first contains the number "9" and the second contains the number "3". Between these two input fields, there are four buttons: a plus sign (+), a minus sign (-), a multiplication sign (\*), and a division sign (/). Below these buttons, there is a single output input field containing the number "3".