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<b>COURSE</b>	Internet and Web Programming

### LAB ASSESSMENT #4

#### Form Design and Validation

Design the following Form and validate all form components using Client side Javascript.

**The World of Fruit**

**Fruit Survey**

Name

Address

Email

How many pieces of fruit do you eat per day?

☐ 0  
☐ 1  
☐ 2  
☐ More than 2

My favourite fruit

Apple  
 Banana  
 Plum  
 Pomegranate

Would you like a brochure? ☐

## Initial page

THE WORLD OF FRUIT

FRUIT SURVEY

Name

Address

E-mail

How many fruits do you eat per day?

☐ 0

☐ 1

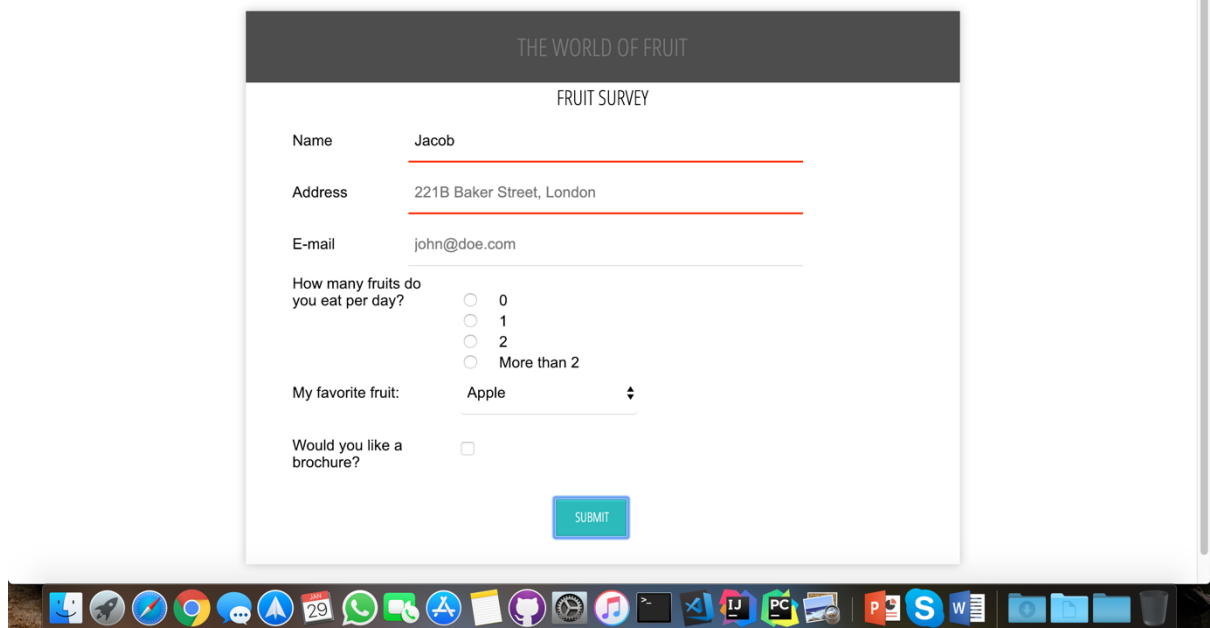
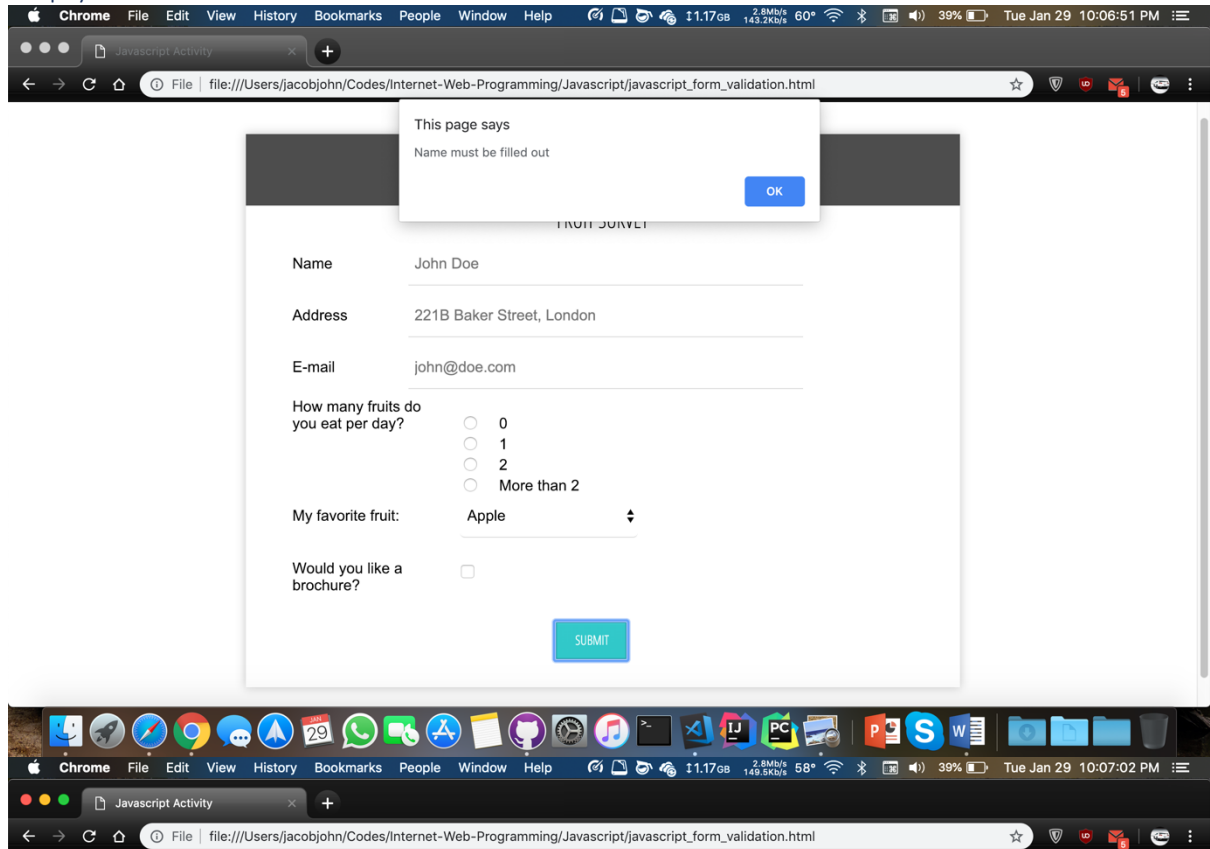
☐ 2

☐ More than 2

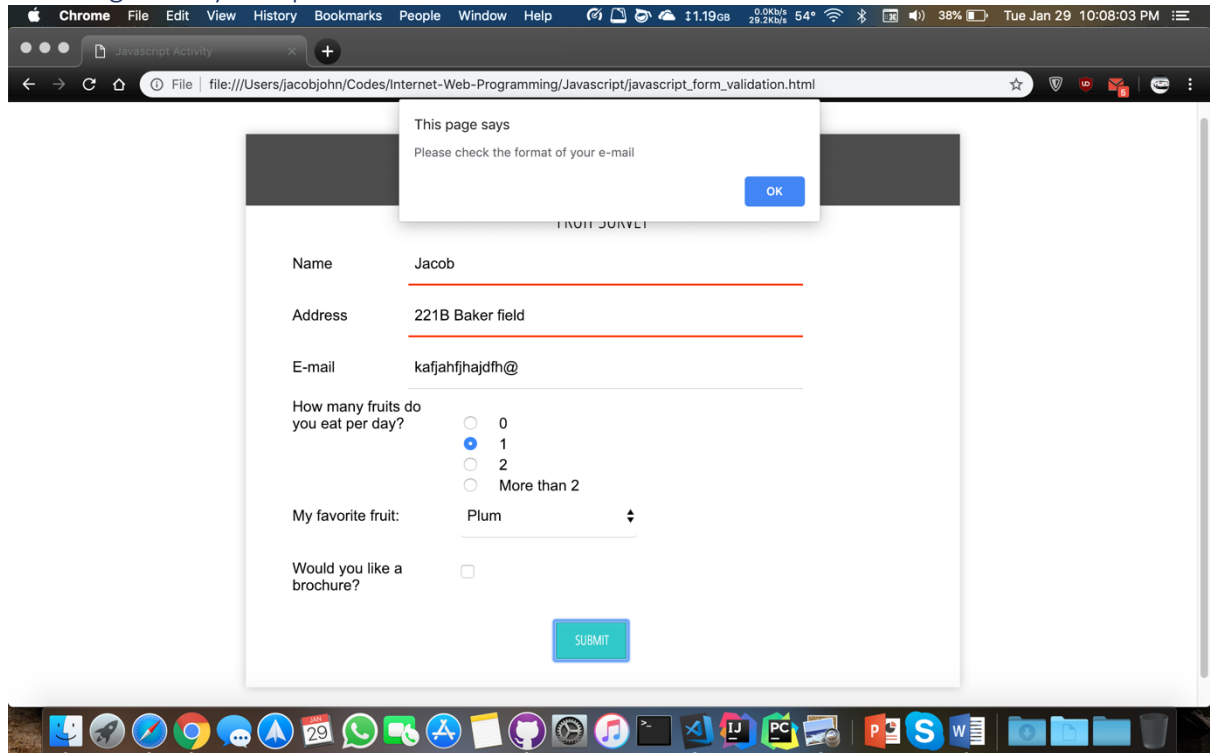
My favorite fruit:

Would you like a brochure? ☐

## Empty Fields



## Checking Validity of Input



## Final code

```
<!DOCTYPE html>
<html>
<link href='http://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
<style type="text/css">
    .form-sample {
        font-family: 'Open Sans Condensed', arial, sans;
        width: 700px;
        padding: 30px;
        background: #FFFFFF;
        margin: 50px auto;
        box-shadow: 0px 0px 15px rgba(0, 0, 0, 0.22);
    }
    h2 {
        text-align: center;
        background: #4D4D4D;
        text-transform: uppercase;
        font-family: 'Open Sans Condensed', sans-serif;
        color: #797979;
        font-size: 26px;
        font-weight: 100;
        padding: 20px;
        margin: -30px -30px 30px -30px;
    }
    h3 {
        text-align: center;
        text-transform: uppercase;
```

```

        color: #000000;
        font-size: 22px;
        font-weight: bold;
        font-weight: 100;
        margin: -30px -30px 10px -30px;
    }
    input[type="text"],
    input[type="email"],
    input[type="checkbox"],
    select {
        box-sizing: border-box;
        outline: none;
        display: inline-block;
        width: 60%;
        padding: 7px;
        border: none;
        border-bottom: 1px solid #ddd;
        background: transparent;
        margin-bottom: 10px;
        font: 16px Arial, Helvetica, sans-serif;
        height: 45px;
    }

    input[type="checkbox"]{
        position: float;
    }
    select{
        min-height: 70px;
        max-width: 27%;
        position: float;
        display: inline;
    }

    input[type="radio"]{
        display:inline-block;
        height: 15px;
        position: relative;
        margin-left: 10px;
        margin-right: 5px;
    }
    input[type="radio"].r1
    {
        margin-left: 203px;
        margin-right: 5px;
    }
    textarea {
        resize: none;
        overflow: hidden;
    }
    p{
        font: 16px Arial, Helvetica, sans-serif;

```

```

        display: inline-block;
        margin: 0 20px;
    }
    p.f1{
        width: 100px;
    }
    p.f2{
        width: 150px;
        position: relative;

    }
    p.f3{
        width: 150px;
        margin: -20px 25px 20px 20px;
        position: relative;
    }
    input[type="button"],
    input[type="submit"] {
        box-shadow: inset 0px 1px 0px 0px #45D6D6;
        background-color: #2CB BBB;
        border: 1px solid #27A0A0;
        display: block;
        cursor: pointer;
        color: #FFFFFF;
        font-family: 'Open Sans Condensed', sans-serif;
        font-size: 14px;
        padding: 8px 18px 10px 20px;
        margin-left: 300px;
        text-decoration: none;
        text-transform: uppercase;
        text-align: center;
    }

    input[type="button"]:hover,
    input[type="submit"]:hover {
        background: linear-gradient(to bottom, #34CACA 5%, #30C9C9 100%);
        background-color: #34CACA;
    }
</style>
<script>
    function validate(){
        var reg = /[A-Za-z]{5,15}/i;
        var reg3 = /.+@.+\..+\/i;
        if(document.forms["myForm"]["name"].value == "")
        {
            alert("Name must be filled out");
            document.forms["myForm"]["name"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
            return false;
        }
        else if(document.forms["myForm"]["address"].value == "")

```

```

    {
        alert("Address must be filled out");
        document.forms["myForm"]["address"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
        return false;
    }
    else if(document.forms["myForm"]["email"].value == "")
    {
        alert("E-mail must be filled out");
        document.forms["myForm"]["email"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
        return false;
    }
    else if(document.forms["myForm"]["fruit-no"].value == "")
    {
        alert("Please select how many fruits do you eat per day");
        document.getElementById("fpd").style.textColor = "2px solid rgb(255,
51, 0)";
        return false;
    }
    else if(reg.test(document.forms["myForm"]["name"].value) != 1){
        alert("Name can only be 5 – 15 alphabetical characters");
        document.forms["myForm"]["name"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
        return false;
    }
    else if((document.forms["myForm"]["address"].value).length < 5 ||
(document.forms["myForm"]["address"].value).length > 40){
        document.forms["myForm"]["name"].style.borderBottom = "2px solid
rgb(56, 209, 56)";
        alert("Address can only be 5 – 40 characters");
        document.forms["myForm"]["address"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
        return false;
    }
    else if(reg3.test(document.forms["myForm"]["email"].value) != 1){
        document.forms["myForm"]["name"].style.borderBottom = "2px solid
rgb(56, 209, 56)";
        document.forms["myForm"]["address"].style.borderBottom = "2px solid
rgb(56, 209, 56)";
        alert("Please check the format of your e-mail");
        document.forms["myForm"]["email"].style.borderBottom = "2px solid
rgb(255, 51, 0)";
        return false;
    }
    document.forms["myForm"]["name"].style.borderBottom = "2px solid rgb(56,
209, 56)";
    document.forms["myForm"]["address"].style.borderBottom = "2px solid
rgb(56, 209, 56)";
    document.forms["myForm"]["email"].style.borderBottom = "2px solid rgb(56,
209, 56)";

```

```

    }
</script>
<head>
  <title>
    Javascript Activity
  </title>
</head>
<body>
  <div class = "form-sample">
    <h2>The World of Fruit</h2>
    <h3>Fruit Survey</h3>
    <form name="myForm" onsubmit="return validate()">
      <p class="f1">Name</p> <input type="text" name="name"
placeholder="John Doe"><br>
      <p class="f1">Address</p> <input type="text" name="address"
placeholder="221B Baker Street, London"><br>
      <p class="f1">E-mail</p> <input type="text" name="email"
placeholder="john@doe.com"><br>
      <p class="f2" id = "fpd">How many fruits do you eat per day?</p>
      <input type = "radio" name="fruit-no" value = "0"><p
class="f2">0</p> <br>
      <input type = "radio" class="r1" name="fruit-no" value="1"><p
class="f2">1</p> <br>
      <input type = "radio" class="r1" name="fruit-no" value="2"><p
class="f2">2</p> <br>
      <input type = "radio" class="r1" name="fruit-no" value="2+"><p
class="f2">More than 2</p> <br>
      <p class="f3">My favorite fruit: </p>
      <select name = "favorite">
        <option value="apple">Apple</option>
        <option value="banana">Banana</option>
        <option value="orange">Orange</option>
        <option value="plum">Plum</option>
        <option value="pineapple">Pineapple</option>
      </select><br>
      <p class="f2">Would you like a brochure?</p>
      <input type = "checkbox" name="brochure" value="Yes"><br><br>
      <input type = "submit" name="submit">
    </form>
  </div>
</body>
</html>

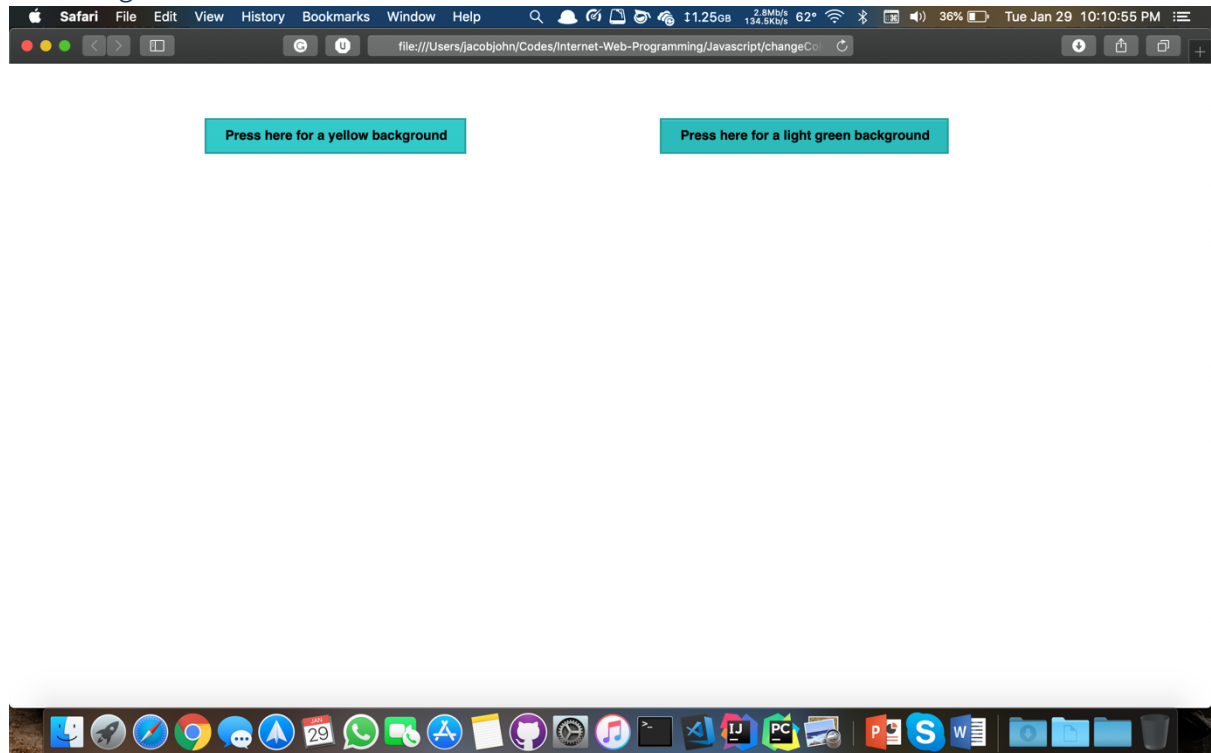
```



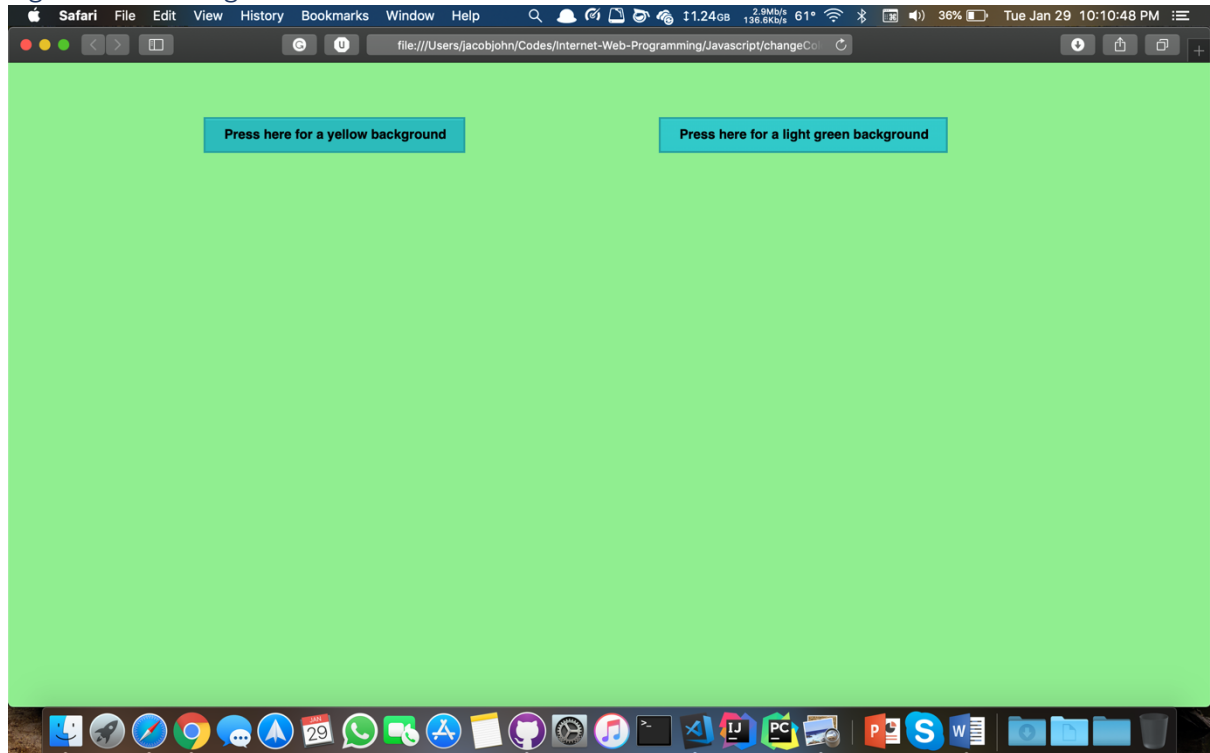
## Change styles using JavaScript

Create a function called *changeColor()* that will be called when the user presses one of two buttons. The first button will contain the text “Press here for a yellow background”. The second button will contain the text “Press here for a light green background”. The function will take one parameter, a color. Its function is to change the background color of the current document; for example, `bgColor=“yellow”`.

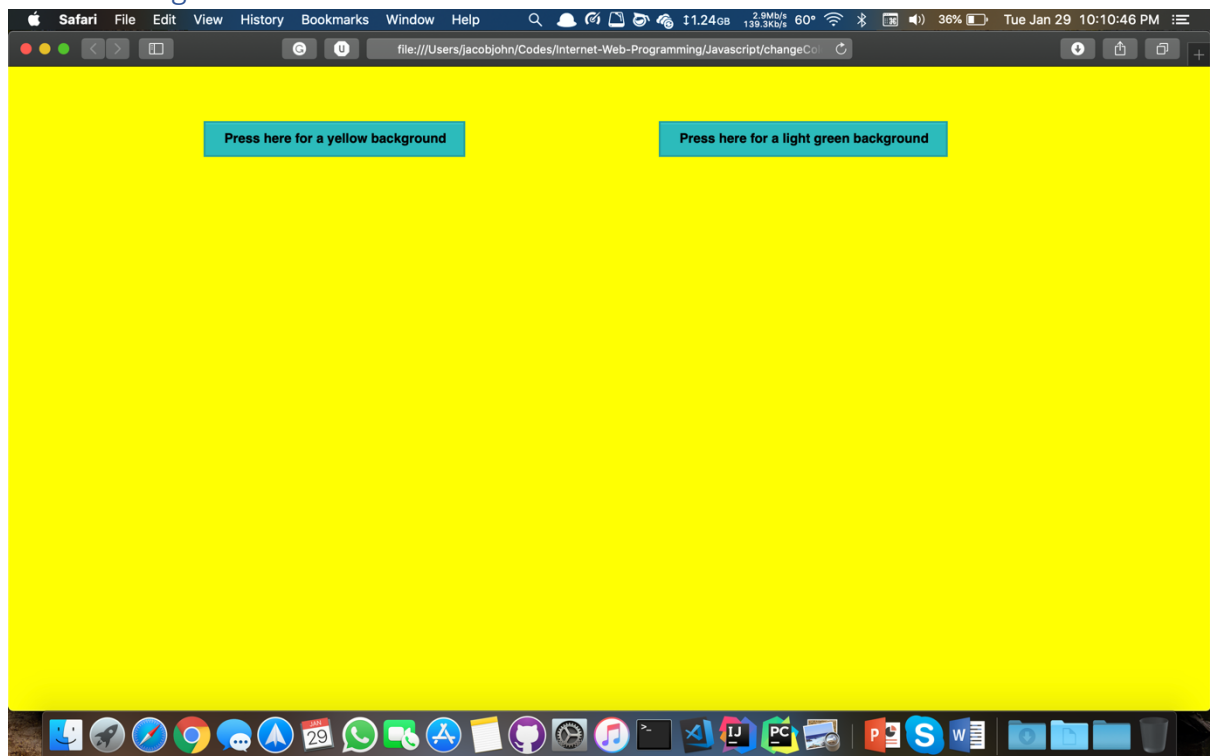
### Initial Page



## Light Green background



## Yellow background



## Final Code

```
<!DOCTYPE html>
<html>
```

```

<head>
  <style>
    body{
      background-color: white;
    }
    button{
      box-shadow: inset 0px 1px 0px 0px #45D6D6;
      background-color: #2CBBBB;
      border: 2px solid #27A0A0;
      cursor: pointer;
      color: black;
      font-weight: bold;
      font-family: Helvetica;
      font-size: 14px;
      padding: 8px 18px 10px 20px;
      margin-top: 50px;
      margin-left: 200px;
      text-decoration: none;
      text-align: center;
    }
    button:hover{
      background: linear-gradient(to bottom, #34CACA 5%, #30C9C9
100%);
      background-color: #34CACA;
    }
  </style>
  <script>
    function changeColor(x){
      document.body.style.backgroundColor = x;
    }
  </script>
  <title>
    Change Background color
  </title>
</head>
<body>
  <button type="button" onClick="changeColor('yellow');">Press here for a
yellow background</button>
  <button type="button" onClick="changeColor('lightgreen');">Press here for
a light green background</button>
</body>
</html>

```

## Javascript Arrays

Write a JavaScript program that uses the Array and Math objects. Create an array of five sayings; for example, "A stitch in time saves 9," or "Too many cooks spoil the broth." Each time the Web page is visited, print a random saying.

### First Load



**When in Rome, do as the Romans.**



### After reloading



**Two wrongs don't make a right.**



## Final Code

```
<!DOCTYPE html>
<html>
<head>
  <style>
    h1{
      font-family: arial;
    }
  </style>
</head>
<body>
  <h1 id = "header1"></h1>
  <script>
    var arr = ["Two wrongs don't make a right.",
      "The pen is mightier than the sword.",
      "When in Rome, do as the Romans.",
      "When the going gets tough, the tough get going.",
      "No man is an island."];
    var x = Math.floor(Math.random() * 4) + 0);
    document.getElementById("header1").innerHTML = arr[x];
  </script>
</body>
</html>
```