

Experiment No. \_\_\_\_\_

Date \_\_\_/\_\_\_/2020

**TITLE OF EXPERIMENT: - A Program to create a Home page of any website and change background color using**

- On mouse over event
- On focus event

**DIVISION:** \_\_\_\_\_ **BRANCH:** \_\_\_\_\_

**BATCH:** \_\_\_\_\_ **ROLL NO.:** \_\_\_\_\_

**PERFORMED ON DATE:** \_\_\_\_\_

**SIGNATURE OF TEACHING STAFF:**

## EXPERIMENT NO. 8

**Aim:** Write a JavaScript program to create a Home page of any website and change background color using

- On mouse over event
- On focus event

### Prerequisites:

- For this **Javascript Lab**, it is assumed that you have a prior knowledge of HTML coding. It would help if you had some prior exposure to object-oriented programming concepts and a general idea on creating online applications.
- To understand this experiment, you should have the knowledge of the basic **JavaScript**, On mouse over event, On focus event

### Editor:

1.	NotePad
2.	Visual studio code

### Theory:

The onmouseover property allows you set a script when the mouse pointer is moved onto an element. To change the background color, use the HTML DOM backgroundColor property.

Let us see an example to implement the onmouseover property and change the background color –

### Example

```
<!DOCTYPE html>
<html>
<body>
<h2>Heading Two</h2>
  <a onmouseover="document.body.style.backgroundColor ='orange'">Hover over me to
change the background color.</a><br>
</body>
</html>
```

## Output

### Heading Two

Hover over me to change the background color.

Now hover over the text to change the background color of the web page –

### Heading Two

Hover over me to change the background color.

The working of onmouseover event is shown by changing the colours of a paragraph by taking the mouse over a particular colour.

#### **Syntax:**

```
document.bgColor = 'nameOfColor'
```

HTML code that will change the colour of the background when the mouse is moved over a particular colour. Background colour property specifies the background colour of an element.

Example:

```
<html>

<p>

<!-- when mouse is move over the colour name, colour change -->

<a onmouseover="document.bgColor='green'">Bright Green</a><br>

<a onmouseover="document.bgColor='red'">Red</a><br>

<a onmouseover="document.bgColor='magenta'">Magenta</a><br>

<a onmouseover="document.bgColor='purple'">Purple</a><br>

<a onmouseover="document.bgColor='blue'">Blue</a><br>

<a onmouseover="document.bgColor='yellow'">Yellow</a><br>

<a onmouseover="document.bgColor='black'">Black</a><br>

<a onmouseover="document.bgColor='orange'">Orange</a><br>

</p>

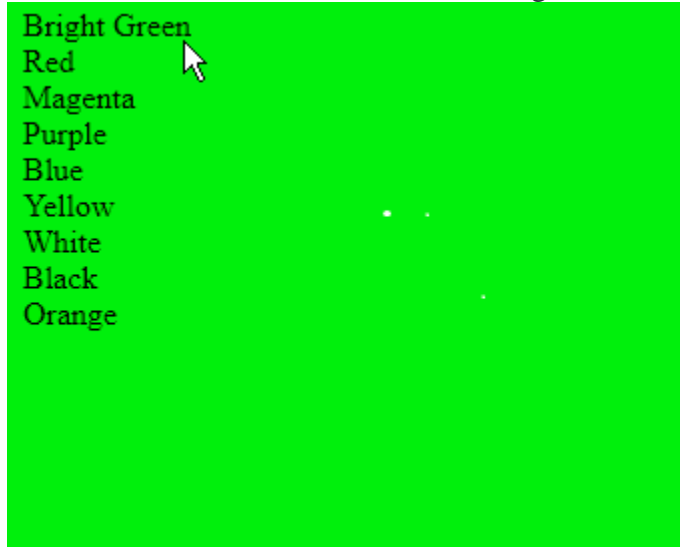
</html>
```

**Output:**

Initially, the background colour is white-

```
Bright Green
Red
Magenta
Purple
Blue
Yellow
White
Black
Orange
```

When the mouse is moved over the “Bright Green” color-



### Example:

Before we get started, let's create an HTML element with an ID:

```
<div id="myID"></div>
```

Now add some CSS style to give it a height and width as well as the background color red:

```
#myID {  
  
height: 400px;  
  
width: 500px;  
  
background-color: red;  
  
}
```

Now if we run the code, we will be able to see a rectangle with the red background color. In this time, there will be no change in background color occur if we mouse over the element. To change the background color, we need to write some JavaScript code that is given below:

```
getElementById("myID").addEventListener("mouseover", function() {  
  
document.getElementById("myID").style.backgroundColor = "green";  
  
});  
  
document.getElementById("myID").addEventListener("mouseout", function() {  
  
document.getElementById("myID").style.backgroundColor = "red";
```

```
});
```

In the above JavaScript code, first, we use the mouseover event to change the background color from red to green.

We also want to bring back the color to red after we move our mouse out of the element. So we have also used the mouseout event. This event will occur when we will remove our mouse cursor from the element.

Now we are ready to run our code. let's see how it works if we test it on our browser.

If you run the complete code on your browser, then you will be able to see the red rectangle. But after you keep your mouse cursor over the element, the color will change into the green. When you remove the mouse cursor from the element, the background color will again come back to red.

So we are able to successfully change the background color on mouse hover with JavaScript.

## Program:

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

<h2>Demonstrate mouseOver() and focusFunction()</h2>

<h3 id="demo" onmouseover="mouseOver()" onmouseout="mouseOut()">Mouse over
me</h3>

<input type="text" placeholder = "Enter Text" id="focus" onfocus="focusFunction()"
onblur="blurFunction()">

<script>
function mouseOver() {
    document.getElementById("demo").style.color = "red";
}

function mouseOut() {
```

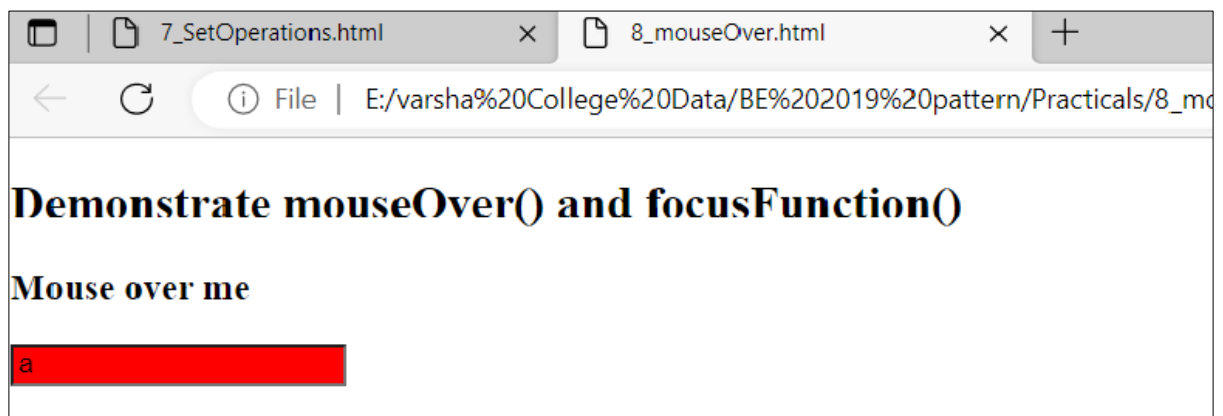
```
document.getElementById("demo").style.color = "black";
}

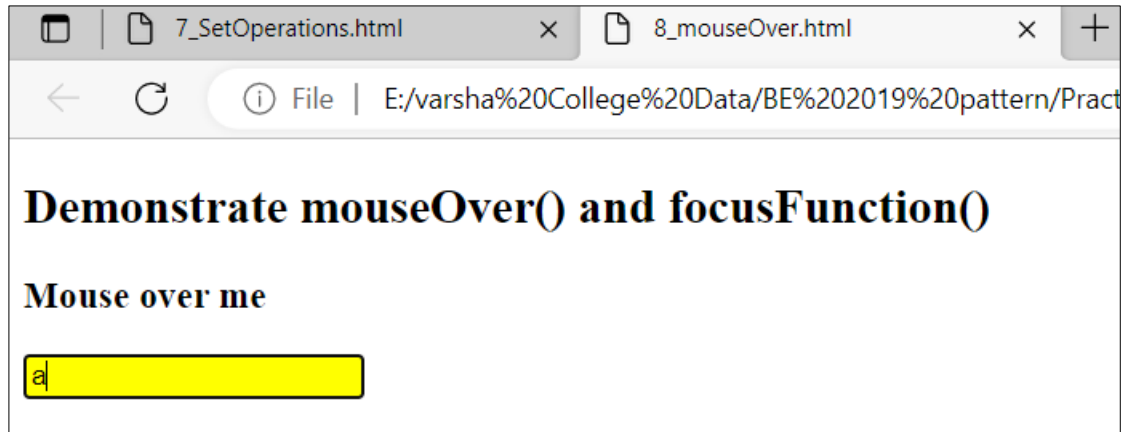
function focusFunction() {
document.getElementById("focus").style.background = "yellow";
}

function blurFunction() {
document.getElementById("focus").style.background = "red";
}
</script>

</body>
</html>
```

### Screenshot's of Output:





**Conclusion:**