**Button Rotation Task:**

**Functionalities:**

1. The webpage displays four buttons: BTN1, BTN2, BTN3, and Rotate.

2. BTN1, BTN2, and BTN3 have initial background colors of red, green, and yellow, respectively.

3. When the "Rotate" button is clicked, the background colors of BTN1, BTN2, and BTN3 rotate in a

circular manner. BTN1's color becomes the color of BTN2, BTN2's color becomes the color of BTN3, and BTN3's color becomes the color of BTN1.

4. The buttons have a hover effect that scales them and changes the box shadow for visual feedback.

**Logic:**

- The webpage uses HTML and CSS to create a user interface with buttons.

- JavaScript handles the button click events and rotates the background colors among the three buttons.

- It utilizes an array to store the colors and moves them in a circular manner to achieve the rotation effect.

**Script:**

<!DOCTYPE html>

<html>

<head>

<style>

body {

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.button-container {

text-align: center;

}

button {

padding: 10px 20px;

font-size: 16px;

border: 1px solid #999;

border-radius: 6px;

box-shadow: 3px 3px 8px rgba(0, 0, 0, 0.2);

transition: transform 0.2s, box-shadow 0.2s, background-color 0.2s; /\* Added background-color transition \*/

margin: 10px;

}

button:hover {

transform: scale(1.05);

box-shadow: 5px 5px 10px rgba(0, 0, 0, 0.3);

}

.red {

background-color: red;

}

.green {

background-color: green;

}

.yellow {

background-color: yellow;

}

</style>

</head>

<body>

<div class="button-container">

<button id="BTN1" class="red" onclick="changeColor()">BTN1</button>

<button id="BTN2" class="green" onclick="changeColor()">BTN2</button>

<button id="BTN3" class="yellow" onclick="changeColor()">BTN3</button>

<button id="Rotate" onclick="rotateColors()">Rotate</button>

</div>

<script>

var colors = ["red", "green", "yellow"];

function changeColor() {

// This function is now empty because the colors change on button rotation.

}

function rotateColors() {

var temp = colors[2];

for (var i = 2; i > 0; i--) {

colors[i] = colors[i - 1];

document.getElementById("BTN" + (i + 1)).className = colors[i];

}

colors[0] = temp;

document.getElementById("BTN1").className = colors[0];

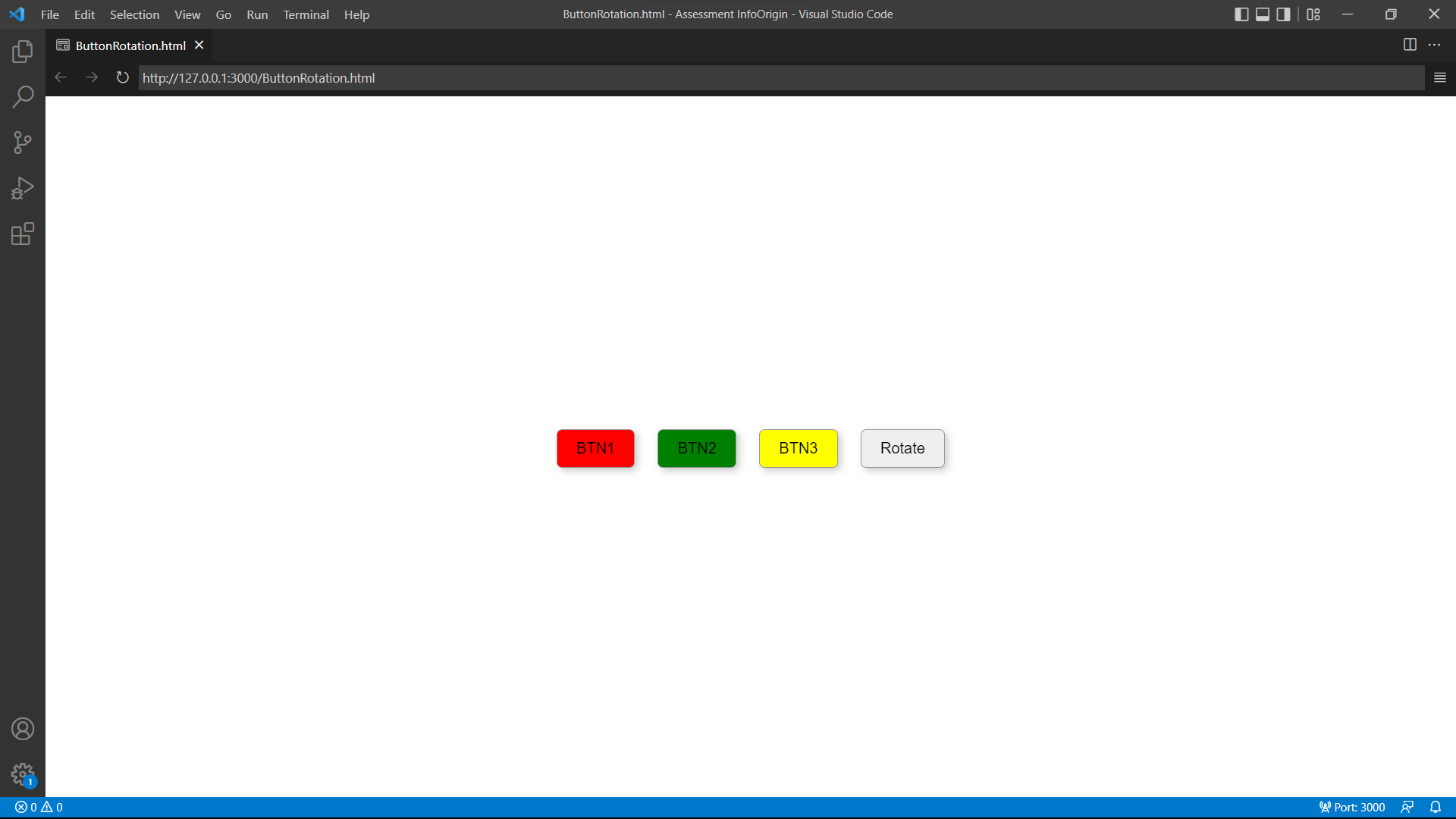
}

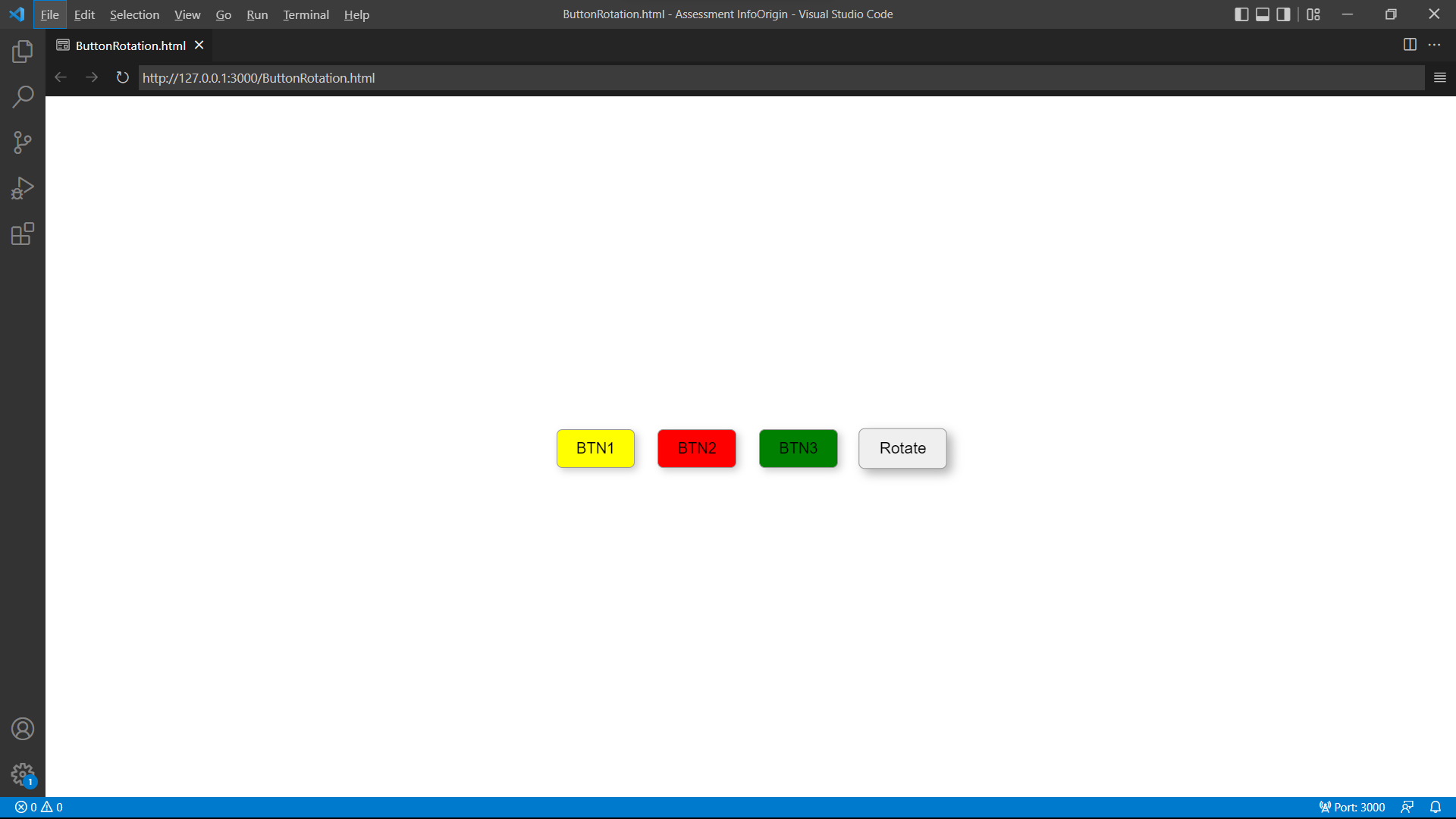
</script>

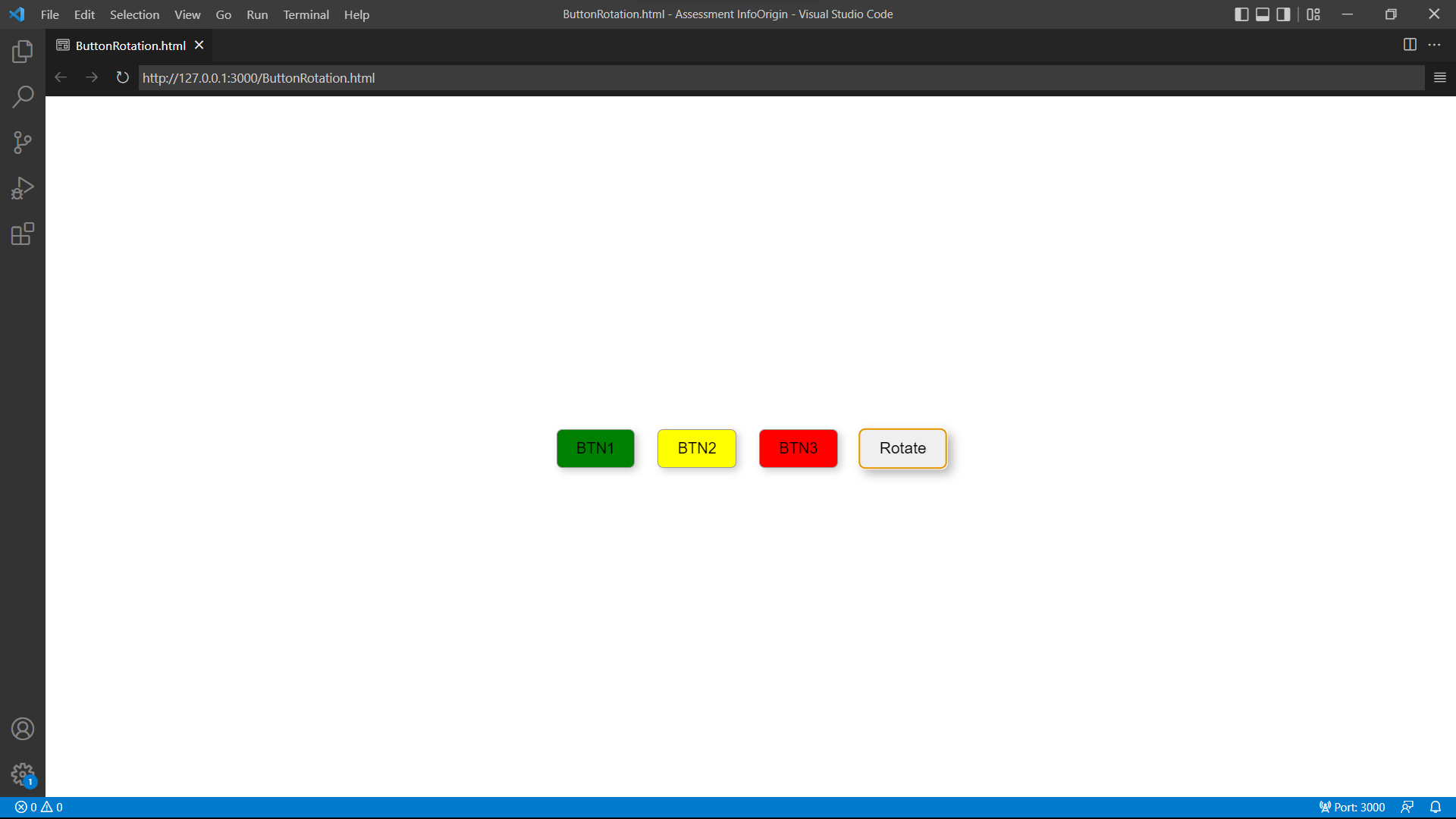
</body>

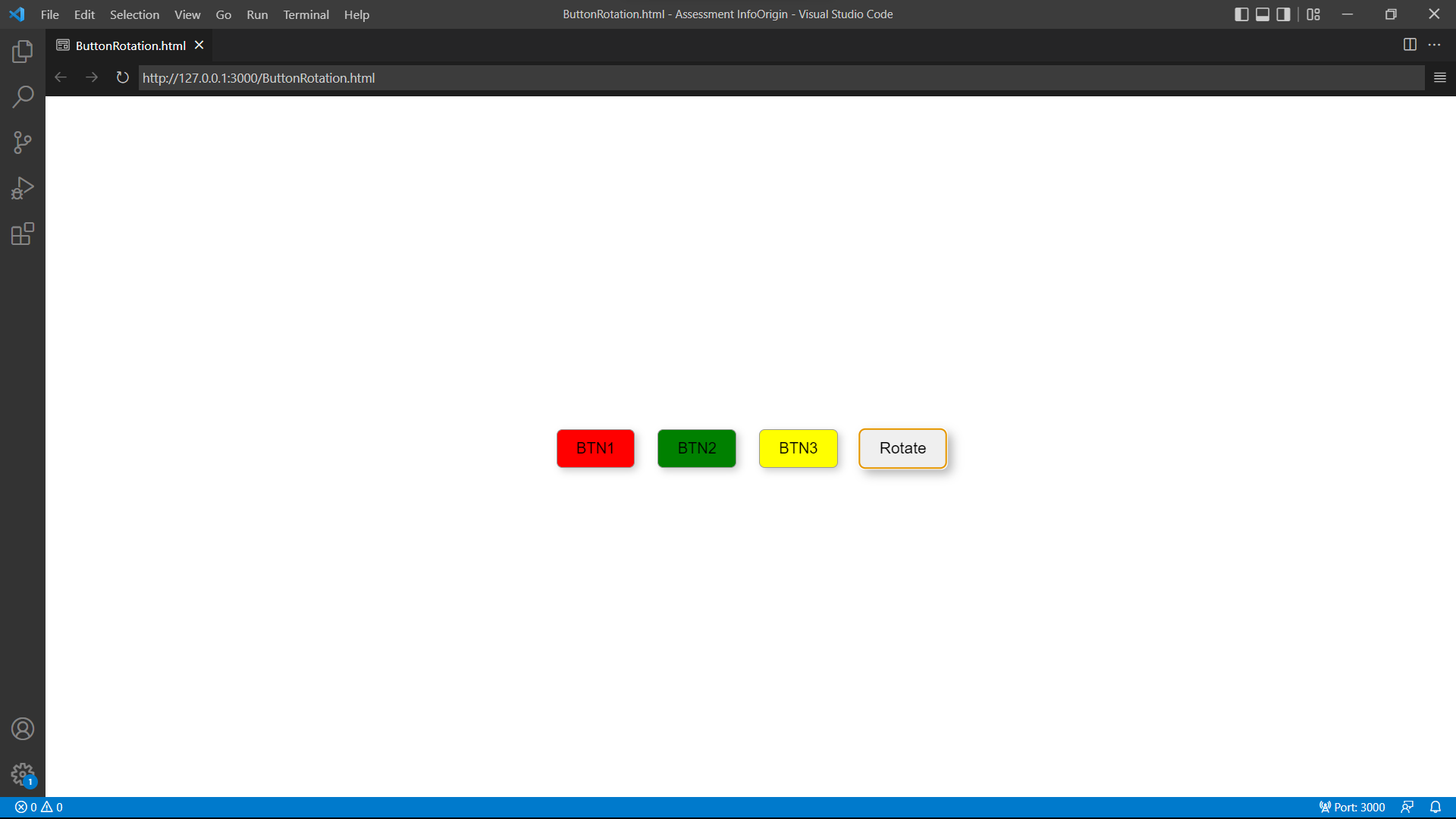
</html>

**Output:**

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