**Laboratory Exercise #16**

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**COURSE/YR/SECTION: BS INFORMATION 3C SCORE: \_\_\_\_\_\_\_\_\_**

**Task #1: Keydown Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #1</title>  </head>  <body>      <h1>Press any key and check the console for the key code!</h1>      <script src="script.js"></script>  </body>  </html> | document.addEventListener('keydown', function(event) {      console.log(`Key code: ${event.keyCode}`);  }); |

**Task #2: Mousemove Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #2</title>      <style>            #myDiv {              width: 300px;              height: 200px;              border: 2px solid black;              text-align: center;              line-height: 200px;              font-size: 18px;              background-color: lightgray;          }      </style>  </head>  <body>      <h1>Mousemove Event Example</h1>      <div id="myDiv">Move your mouse here!</div>      <script src="script.js"></script>  </body>  </html> | const myDiv = document.getElementById('myDiv');  myDiv.addEventListener('mousemove', function(event) {      const x = event.offsetX;      const y = event.offsetY;      console.log(`Mouse coordinates: [${x}, ${y}]`);  }); |

**Task #3: Mouseout Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #3</title>      <style>            #myDiv {              width: 300px;              height: 200px;              border: 2px solid black;              text-align: center;              line-height: 200px;              font-size: 18px;              background-color: lightblue;              margin: 50px auto;          }      </style>  </head>  <body>      <h1>Mouseout Event Example</h1>      <div id="myDiv">Hover over this box!</div>      <script src="script.js"></script>  </body>  </html> | const myDiv = document.getElementById('myDiv');  myDiv.addEventListener('mouseout', function() {        myDiv.textContent = 'Mouse moved out of the div';        console.log('Mouse moved out of the div');  }); |

**Task #4: Change Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #4title>  </head>  <body>      <h1>Select an Option</h1>      <select id="mySelect">          <option value="option1">Option 1: Apples</option>          <option value="option2">Option 2: Bananas</option>          <option value="option3">Option 3: Cherries</option>      </select>      <script src="script.js"></script>  </body>  </html> | const mySelect = document.getElementById('mySelect');  mySelect.addEventListener('change', function() {        const selectedOption = mySelect.options[mySelect.selectedIndex].text;      console.log(`Selected option: ${selectedOption}`);  }); |

**Task #5: Focus Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #5 title>  </head>  <body>      <h1>Focus Event Example</h1>      <label for="myInput">Click inside the box to focus:</label>      <input id="myInput" type="text" placeholder="Type something..." />      <script src="script.js"></script>  </body>  </html> | const myInput = document.getElementById('myInput');  myInput.addEventListener('focus', function() {      console.log('Input focused');  }); |

**Task #6Blur Event**

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| **Index.html** | **script.js** |
| <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>TASK #6 title>  </head>  <body>      <h1>Blur Event Example</h1>      <label for="myInput">Click inside the box and then click elsewhere:</label>      <input id="myInput" type="text" placeholder="Type something..." />      <script src="script.js"></script>  </body>  </html> | const myInput = document.getElementById('myInput');  myInput.addEventListener('blur', function() {        console.log('Input lost focus');  }); |