



**UNIVERSITI MALAYSIA TERENGGANU**

**BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)  
WITH HONOURS**

**SEM 2 2022 / 2023**

**CSM 3103: FRONT-END PROGRAMMING (K2)**

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**LAB REPORT 3**

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**LECTURER:**

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## Task 1

```
1  // task 1
2  function square(number) {
3    | return number * number;
4  }
5  let theNumber = prompt('Enter a number to square it?');
6  let mySquare = square(theNumber);
7  console.log(mySquare);
8  // Output: number * number
9  function CubeOf2Number(num1, num2) {
10   | return Math.pow(num1,3) + Math.pow(num2,3);
11 }
12 let num1 = prompt('Enter the first number?');
13 let num2 = prompt('Enter the second number?');
14 console.log(CubeOf2Number(num1,num2));
15 function reverseNumber(number) {
16   | let reversed = 0;
17   | while (number !== 0) {
18   |   | let lastDigit = number % 10;
19   |   | reversed = (reversed * 10) + lastDigit;
20   |   | number = Math.floor(number / 10);
21   | }
22   | return reversed;
23 }
24 let myNumber = prompt("Enter a number to get the reverse?");
25 let myReversedNumber = reverseNumber(myNumber);
26 console.log(myReversedNumber);
27
28 function isDivisible(num){
29   | for(let i = 1; i <= 100; i++){
30   |   | if(i % num == 0)
31   |   |   | console.log(i);
32   |   | }
33   | }
34 let num3 = prompt('what number u want to test if divisible?');
35 isDivisible(num3);
```

## Task 2

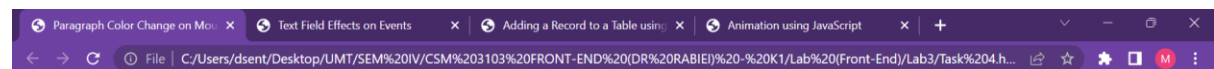
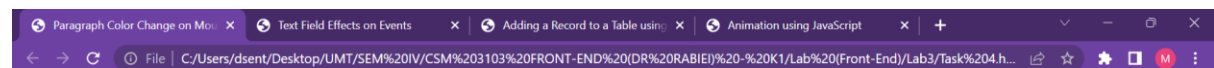
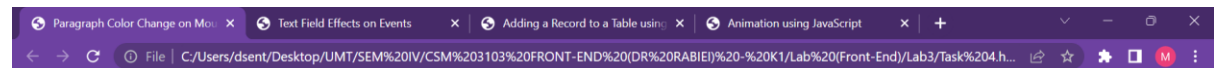
```
1  //task 1
2  function sumOfDigits(number) {
3      if (number === 0) {
4          return 0;
5      } else {
6          return (number % 10) + sumOfDigits(Math.floor(number / 10));
7      }
8  }
9  let myNumber = prompt("Please, Enter a number?");
10 let mySum = sumOfDigits(myNumber);
11 console.log(mySum);
12
13
14 //task 2
15 function power(x, y) {
16     if (y === 0) {
17         return 1;
18     } else if (y % 2 === 0) {
19         let result = power(x, y / 2);
20         return result * result;
21     } else {
22         return x * power(x, y - 1);
23     }
24 }
25 let myX = prompt("Please, Enter the value of x");
26 let myY = prompt("Now, Enter the value of y (x^y)");
27 let myPower = power(myX, myY);
28 console.log(myPower);
29
```

### Task 3

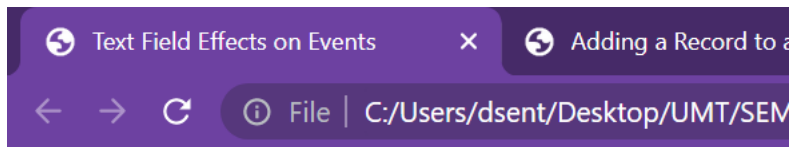
```
1  // task 1
2  let product = {
3    productName: "Widget",
4    quantity: 10,
5    price: 5.99
6  };
7  console.log("Product Name: " + product.productName);
8  console.log("Quantity: " + product.quantity);
9  console.log("Price: " + product.price);
10 // task 2
11 function Book(bookName, authorName) {
12   this.bookName = bookName;
13   this.authorName = authorName;
14 }
15 Book.prototype.price = 10.99;
16 let myBook = new Book("The Great Gatsby", "F. Scott Fitzgerald");
17 console.log("Book Name: " + myBook.bookName);
18 console.log("Author Name: " + myBook.authorName);
19 console.log("Price: " + myBook.price);
20 //task 3
21 let employee = {
22   employeeName: "John Doe",
23   employeeId: 12345,
24   salary: 50000
25 };
26 let manager = Object.create(employee);
27 manager.managerName = "Jane Smith";
28 manager.branch = "New York";
29
30 console.log("Employee Name: " + manager.employeeName);
31 console.log("Employee ID: " + manager.employeeId);
32 console.log("Salary: " + manager.salary);
33 console.log("Manager Name: " + manager.managerName);
34 console.log("Branch: " + manager.branch);
```

## Task 4

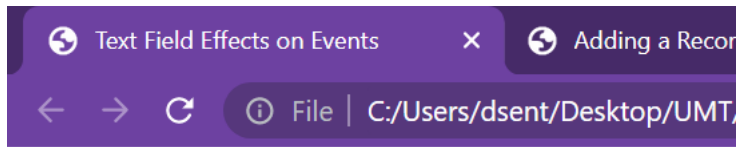
```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Paragraph Color Change on Mouse Events</title>
5      <style>
6          p {
7              padding: 20px;
8              font-size: 24px;
9              background-color: white;
10         }
11     </style>
12 </head>
13 <body>
14     <p id="myParagraph">This is a paragraph. Hover over it or click on it to see the color change.</p>
15
16     <script>
17         var paragraph = document.getElementById("myParagraph");
18
19         paragraph.onclick = function() {
20             paragraph.style.backgroundColor = "yellow";
21         };
22         paragraph.ondblclick = function() {
23             paragraph.style.backgroundColor = "blue";
24         };
25         paragraph.onmouseover = function() {
26             paragraph.style.backgroundColor = "red";
27         };
28         paragraph.onmouseout = function() {
29             paragraph.style.backgroundColor = "green";
30         };
31     </script>
32 </body>
33 </html>
```



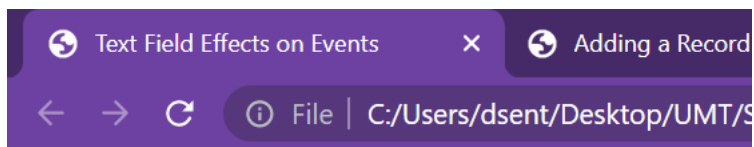
```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Text Field Effects on Events</title>
5      <style>
6          input[type="text"] {
7              padding: 10px;
8              font-size: 16px;
9              border: 2px solid black;
10             border-radius: 5px;
11         }
12     </style>
13 </head>
14 <body>
15     <label for="myTextField">Enter your name:</label>
16     <input type="text" id="myTextField">
17
18     <script>
19         var textField = document.getElementById("myTextField");
20
21         textField.onchange = function() {
22             textField.style.backgroundColor = "yellow";
23         };
24
25         textField.onfocus = function() {
26             textField.style.boxShadow = "0 0 5px red";
27         };
28
29         textField.onblur = function() {
30             textField.style.border = "2px solid blue";
31             textField.style.boxShadow = "none";
32         };
33     </script>
34 </body>
35 </html>
```



Enter your name:



Enter your name:



Enter your name:

## Task 5

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Adding a Record to a Table using JavaScript</title>
5      <style>
6        table,
7        th,
8        td {
9          border: 1px solid black;
10         border-collapse: collapse;
11         padding: 5px;
12       }
13     </style>
14   </head>
15   <body>
16     <table>
17       <tbody>
18         <tr>
19           <td>1</td>
20           <td>Ahmad Faisal</td>
21           <td>ahmadfaisal@gmail.com</td>
22           <td>0199088888</td>
23         </tr>
24         <tr>
25           <td>2</td>
26           <td>Ismail Sabri</td>
27           <td>isabri@mail.com</td>
28           <td>0199076760</td>
29         </tr>
30         <tr>
31           <td>3</td>
32           <td>Fateh Yakin</td>
33           <td>ffateh@hotmail.com</td>
34           <td>0176067762</td>
35         </tr>
```



```
36     </tbody>
37 </table>
38
39 <script>
40 //Task 2
41     var table = document.querySelector("table");
42     var tbody = table.querySelector("tbody");
43
44     // Create the table header row
45     var thead = document.createElement("thead");
46     var headerRow = document.createElement("tr");
47
48     // Create and append the header cells
49     var headerNumber = document.createElement("th");
50     headerNumber.textContent = "#";
51     headerRow.appendChild(headerNumber);
52
53     var headerName = document.createElement("th");
54     headerName.textContent = "Name";
55     headerRow.appendChild(headerName);
56
57     var headerEmail = document.createElement("th");
58     headerEmail.textContent = "Email";
59     headerRow.appendChild(headerEmail);
60
61     var headerPhone = document.createElement("th");
62     headerPhone.textContent = "Phone #";
63     headerRow.appendChild(headerPhone);
64
65     // Append the header row to the thead element
66     thead.appendChild(headerRow);
67
68     // Append the thead element to the table element
69     table.appendChild(thead);
70
```

```

71 //
72 var tbody = table.querySelector("tbody");
73
74 var newRow = document.createElement("tr");
75 var newNumber = document.createElement("td");
76 var newName = document.createElement("td");
77 var newEmail = document.createElement("td");
78 var newPhone = document.createElement("td");
79
80 newNumber.textContent = tbody.children.length + 1;
81 newName.textContent = "Mukhriz Jamil Asoka";
82 newEmail.textContent = "mukhriz@corp.jo";
83 newPhone.textContent = "651181187223";
84
85 newRow.appendChild(newNumber);
86 newRow.appendChild(newName);
87 newRow.appendChild(newEmail);
88 newRow.appendChild(newPhone);
89
90 tbody.appendChild(newRow);
91 </script>
92 <script>
93 //task 3 deleting row when clicked
94 var table = document.querySelector("table");
95 var rows = table.querySelectorAll("tr");
96
97 for (var i = 0; i < rows.length; i++) {
98     rows[i].addEventListener("click", function () {
99         this.parentNode.removeChild(this);
100     });
101 }
102 </script>
103 </body>
104 </html>

```

Adding a Record to a Table using

Animation using JavaScript

←

→

↺

File | C:/Users/dsent/Desktop/UMT/SEM%20IV/CSM9

#	Name	Email	Phone #
1	Ahmad Faisal	ahmadfaisal@gmail.com	0199088888
2	Ismail Sabri	isabri@mail.com	0199076760
3	Fateh Yakin	ffateh@hotmail.com	0176067762
4	Mukhriz Jamil Asoka	mukhriz@corp.jo	651181187223

Adding a Record to a Table using

Animation using JavaScri

←

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↺

File | C:/Users/dsent/Desktop/UMT/SEM%2

#	Name	Email	Phone #
1	Ahmad Faisal	ahmadfaisal@gmail.com	0199088888
2	Ismail Sabri	isabri@mail.com	0199076760
3	Fateh Yakin	ffateh@hotmail.com	0176067762

Adding a Record to a Table using

Animation using

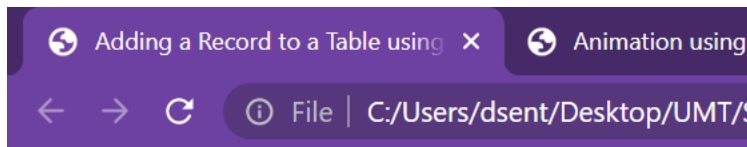
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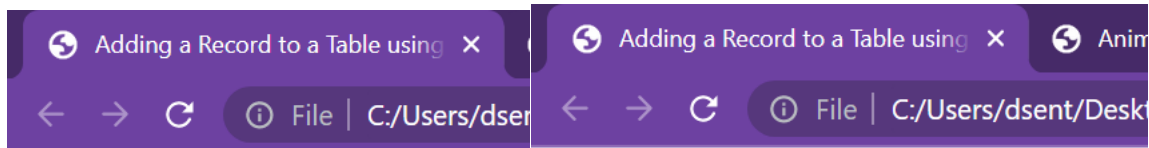
↺

File | C:/Users/dsent/Desktop/UMT/S

#	Name	Email	Phone #
2	Ismail Sabri	isabri@mail.com	0199076760
3	Fateh Yakin	ffateh@hotmail.com	0176067762



#	Name	Email	Phone #
3	Fateh Yakin	ffateh@hotmail.com	0176067762



#	Name	Email	Phone #
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## Task 6

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Animation using JavaScript</title>
5      <style>
6          #big-square {
7              position: relative;
8              width: 300px;
9              height: 300px;
10             border: 1px solid □black;
11         }
12         .small-square {
13             position: absolute;
14             width: 50px;
15             height: 50px;
16             background-color: ■red;
17         }
18         #small-square1 {
19             top: 0;
20             left: 0;
21         }
22         #small-square2 {
23             bottom: 0;
24             right: 0;
25         }
26     </style>
27 </head>
28 <body>
29     <div id="big-square">
30         <div id="small-square1" class="small-square"></div>
31         <div id="small-square2" class="small-square"></div>
32     </div>
33
```

```
34 <button id="start-btn">Start</button>
35 <button id="stop-btn">Stop</button>
36
37 <script>
38     const bigSquare = document.getElementById("big-square");
39     const smallSquare1 = document.getElementById("small-square1");
40     const smallSquare2 = document.getElementById("small-square2");
41     const startBtn = document.getElementById("start-btn");
42     const stopBtn = document.getElementById("stop-btn");
43
44     let intervalId;
45
46     function moveSquares() {
47         const max = 200;
48         const min = 0;
49         const random1 = Math.floor(Math.random() * (max - min + 1)) + min;
50         const random2 = Math.floor(Math.random() * (max - min + 1)) + min;
51         smallSquare1.style.top = random1 + "px";
52         smallSquare1.style.left = random1 + "px";
53         smallSquare2.style.bottom = random2 + "px";
54         smallSquare2.style.right = random2 + "px";
55     }
56
57     startBtn.addEventListener("click", function() {
58         intervalId = setInterval(moveSquares, 1000);
59     });
60
61     stopBtn.addEventListener("click", function() {
62         clearInterval(intervalId);
63     });
64 </script>
65 </body>
66 </html>
```

