



Lab Report 6  
CSF3133-Web\_Based Interface Design

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## 6.3 Basic Javascript

1. First output

---

My First JS!

2. After change

**My First** *Java Script*

## 6.4 getElementById()

Output:

---

### What Can JavaScript Do?

JavaScript can change HTML content.

Click Me!

After hit button Click me

### What Can JavaScript Do?

Hello JavaScript!

Click Me!

## 6.5 Date and Time

1. First output

Click me go display Date and Time

Wed Dec 03 2025 14:45:22 GMT+0800 (Malaysia Time)

2. After change style variable for demo

Click me to display Date and Time

Wed Dec 03 2025 14:52:43 GMT+0800 (Malaysia Time)

## 6.6 Change HTML Attribute Values

### What Can JavaScript \index{JavaScript} Do?

JavaScript \index{JavaScript} can change HTML attribute values.

In this case, JavaScript \index{JavaScript} changes the value of the `src` (source) attribute of an image.



Turn on the light

Turn off the light

After hit turn on light button

## What Can JavaScript Do?

JavaScript can change HTML attribute values.

In this case, JavaScript changes the value of the 'src' (source) attribute of an image.



Turn on the light

Turn off the light

## 6.7 Link to file javascript

Output:

## Click the Button to See the Message

Click Me

After click me

This page says

Hello UMT Students

OK

## 6.8 Working with events

### Right-Click Disabled

Try right-clicking anywhere on this page.

This page says

Right-click is disabled on this page.

OK

## 6.9 Multiplication Table Generator

### Multiplication table Generator

Enter number of rows: 2

Enter number of columns: 2

Generate Table

1	2
2	4

## 6.10.1 Form Validation

Case 1: empty field

**Form Validation Example**

First Name:

Submit

This page says

First name must be filled out

OK

Case2: submit successfully

**Form Validation Example**

First Name:

Submit

## 6.10.2 - numeric input validation

Case 1: Age empty

**Numeric Input Validation Example**

Enter your age:

Submit

This page says

Age field cannot be empty.

OK

### Case2: Input character

## Numeric Input

Enter your age:

Submit

This page says

Please enter a valid numeric value.

OK

### Case3: Out of boundry

## Numeric Input

Enter your age:

Submit

This page says

Please enter a number between 1 and 120.

OK

### Case4: In boundry

## Numeric Input

Enter your age:

Submit

This page says

Form submitted successfully!

OK

## 6.11 Math Function

### 6.11.1 Guess a Number

1. Display if guess Incorrect

#### This page says

Not matched. The correct number was 9.

OK

2. Display if guess Match

#### This page says

Good Work! You guessed it right.

OK



## Lab exercise 6

Index.html

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Simple Quiz App</title>
6      <link rel="stylesheet" href="style.css">
7  </head>
8  <body>
9
10 <header>
11     <h1>Simple Quiz Test</h1>
12 </header>
13
14 <section id="quiz-box">
15     <div id="timer">Time: <span id="time">15</span>s</div>
16
17     <h2 id="question">Question text</h2>
18
19     <div id="options">
20         <!-- Answer buttons auto insert -->
21     </div>
22
23     <p id="feedback"></p>
24
25     <button id="nextBtn" onclick="nextQuestion()">Next</button>
26 </section>
27
28 <footer>
29     <h3>Your Score: <span id="score">0</span></h3>
30 </footer>
31
32 <script src="script.js"></script>
33 </body>
34 </html>
35
```

## Style.css

```
1  body{
2      font-family: Arial, sans-serif;
3      background-color: #f5f5f5;
4      text-align:center;
5  }
6
7  header{
8      background-color: #ff4000;
9      color: white;
10     padding: 10px;
11 }
12
13 #quiz-box{
14     background: white;
15     width:50%;
16     margin:30px auto;
17     padding:20px;
18     border-radius:10px;
19     box-shadow:0 0 10px rgba(0,0,0,0.2);
20 }
21
22 #timer{
23     font-size:18px;
24     color: red;
25     margin-bottom:10px;
26 }
27
28 #options button{
29     display:block;
30     width:100%;
31     padding:10px;
32     margin:5px 0;
33     border:none;
34     background: #e0e0e0;
35     font-size:16px;
36     cursor:pointer;
37 }
38
```

```

39   #options button:hover{
40   |   background: #90caf9;
41   }
42
43   #feedback{
44   |   font-size:18px;
45   |   font-weight:bold;
46   }
47
48   #nextBtn{
49   |   margin-top:10px;
50   |   padding:10px 20px;
51   |   background: #2196F3;
52   |   color:white;
53   |   border:none;
54   |   cursor:pointer;
55   }
56
57   footer{
58   |   margin-top:20px;
59   }
60

```

Script.jss

```

// 1. QUESTIONS ARRAY

const questions = [
  {
    question: "What color is the sky??",
    options: ["Blue", "Green", "Red", "Yellow"],
    answer: 0
  },
  {
    question: "What color is the ocean??",
    options: ["Red", "Blue", "Pink", "Purple"],
    answer: 1
  },
  {
    question: "1+1=?",
    options: ["2", "3", "4", "5"],
    answer: 0
  }
];

let currentIndex = 0;
let score = 0;
let timer;
let timeLeft = 15;

// 2. SHUFFLE QUESTIONS

function shuffleQuestions(){
  questions.sort(() => Math.random() - 0.5);
}

```

```

34 // 3. START TIMER
35
36 function startTimer(){
37     timeLeft = 15;
38     document.getElementById("time").textContent = timeLeft;
39
40     timer = setInterval(() => {
41         timeLeft--;
42         document.getElementById("time").textContent = timeLeft;
43
44         if(timeLeft === 0){
45             clearInterval(timer);
46             nextQuestion();
47         }
48     },1000);
49 }
50
51
52 // 4. DISPLAY QUESTION
53 function displayQuestion(){
54     const q = questions[currentIndex];
55
56     document.getElementById("question").textContent = q.question;
57
58     const optionsBox = document.getElementById("options");
59     optionsBox.innerHTML = "";
60
61     q.options.forEach((option, index) => {
62         const btn = document.createElement("button");
63         btn.textContent = option;
64         btn.onclick = () => checkAnswer(index);
65         optionsBox.appendChild(btn);
66     });
67 }

```

```

70 // 5. CHECK ANSWER
71
72 function checkAnswer(selected){
73     clearInterval(timer);
74
75     if(selected === questions[currentIndex].answer){
76         score++;
77         document.getElementById("feedback").textContent = "✅ Correct!";
78     }else{
79         document.getElementById("feedback").textContent = "❌ Wrong!";
80     }
81
82     document.getElementById("score").textContent = score;
83 }
84
85
86 // 6. NEXT QUESTION
87
88 function nextQuestion(){
89     currentIndex++;
90     document.getElementById("feedback").textContent = "";
91
92     if(currentIndex < questions.length){
93         displayQuestion();
94         startTimer();
95     }
96     else{
97         document.getElementById("question").textContent = "Quiz Finished 🎉";
98         document.getElementById("options").innerHTML = "";
99         document.getElementById("time").textContent = "0";
100     }
101 }

```

```

103 // 7. START QUIZ
104
105 function startQuiz(){
106     shuffleQuestions();
107     displayQuestion();
108     startTimer();
109 }
110
111 startQuiz();
112

```

Output:

**Simple Quiz Test**

Time: 6s

**1+1=?**

✔ **Correct!**

Your Score: 1

**Simple Quiz Test**

Time: 14s

**What color is the ocean??**

✖ **Wrong!**

Your Score: 1

Time: 0s

**Quiz Finished** 🎉

Next

**Your Score: 1**