



**Reka Bentuk Antara Muka Berasaskan Web**  
**(CSF3133)**

**LAB REPORT 6**

NAME: CHIA FU YAN

MATRIC: S75039

DATE: 03/12/2024

GROUP: K4

PROGRAM: Computer Science (Software Engineering)

LECTURER: Miss Wan Fatin

## 6.3 Basic Javascript

### Step 2

My First JS!

### Step 4

**My First *Java Script***

## 6.4 getElementById()

Before

# What can JavaScript Do?

JavaScript can change HTML content.

Click Me!

After

# What can JavaScript Do?

Hello JavaScript!

Click Me!

## 6.5 Date and Time

---

Click me to display Date and Time

Wed Dec 03 2025 11:00:38 GMT+0800 (Malaysia Time)

Click me to display Date and Time

Wed Dec 03 2025 11:01:52 GMT+0800 (Malaysia Time)

Click me to display Date and Time

Wed Dec 03 2025 11:05:04 GMT+0800 (Malaysia Time)

## 6.6 Change HTML Attribute Values

On the light

### **What can JavaScript \index{JavaScript} Do?**

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

In this case, JavaScript \Index{JavaScript} change the value of the 'src' (source) attribute of an image.



Turn ON the light

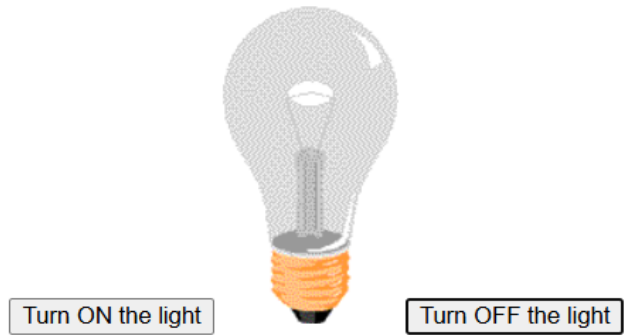
Turn OFF the light

Off the light

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

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

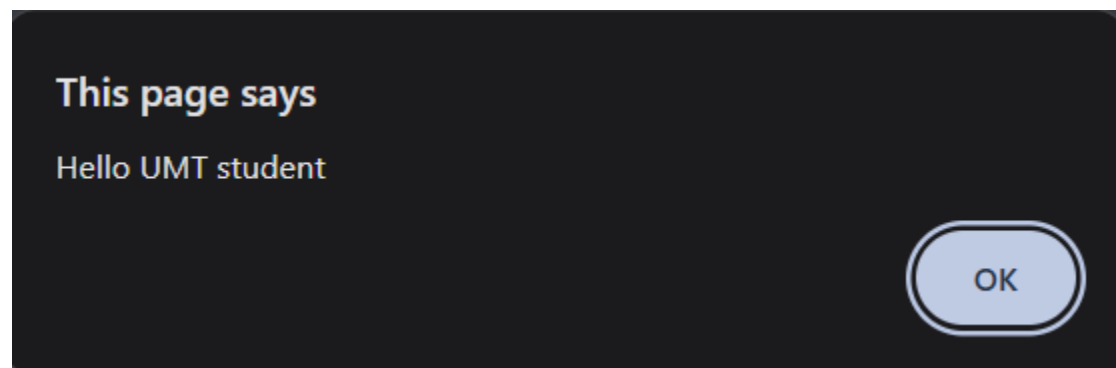
In this case, JavaScript \Index{JavaScript} change the value of the 'src' (source) attribute of an image.



### 6.7 Link to file Javascript (\*.js)

#### 6.7.3 External References

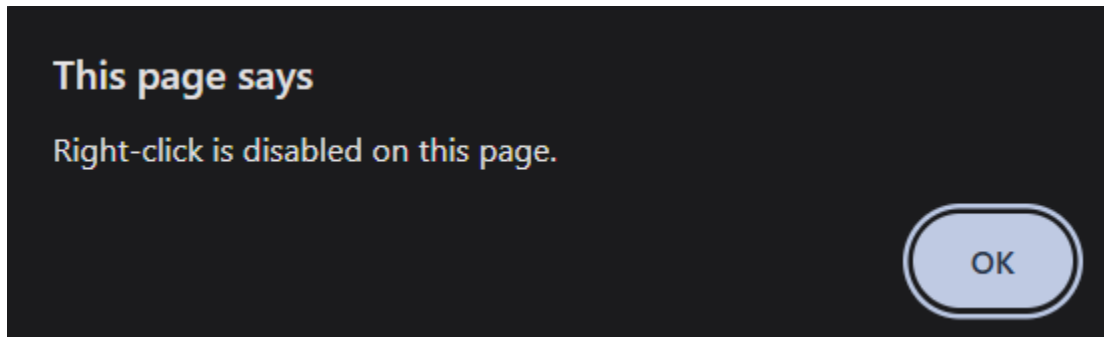
## Click the Button to See the Message



## 6.8 Working with events

# Right-Click Disabled

Try right-clicking anywhere on this page.



## 6.9 Multiplication Table

### Multiplication Table Generator

Enter number of rows:

Enter number of columns:

Generate Table

1	2	3	4	5	6
2	4	6	8	10	12
3	6	9	12	15	18
4	8	12	16	20	24
5	10	15	20	25	30

## 6.10 Client-side validation

### Multiplication Table Generator

Enter number of rows:

Enter number of columns:

Generate Table

1	2	3	4	5	6
2	4	6	8	10	12
3	6	9	12	15	18
4	8	12	16	20	24
5	10	15	20	25	30

### 6.10.1 Form Validation

#### Case 1

## Form Validation

First Name:

Submit

**This page says**

Name must be filled out

OK

#### Case 2

## Form Validation

First Name:

Simon

Submit

## 6.10.2 Numeric Input Validation

### Case 1

## Numeric Input Validation Examples

Enter Your Age:

**This page says**

Age field cannot be empty.

### Case 2

## Numeric Input Validation Examples

Enter Your Age:

### This page says

Please enter a valid numeric value.

OK

#### Case 3

## Numeric Input Validation Examples

Enter Your Age:

200

Submit

### This page says

Please enter an age between 1 and 120.

OK

#### Case 4

## Numeric Input Validation Examples

Enter Your Age:

25

Submit



**This page says**

Form submitted successfully!

OK

## 6.11 Math Function

### 6.11.1 Guess a Number

# Guess the Number Game

Try to guess the random number between 1 and 10!

Play

**This page says**

Guess a number between 1 and 10.

OK

Cancel

### This page says

Not matched. The correct number was  
7.

OK

### This page says

Good Work! You guessed it right.

OK

## 6.12 Lab Exercise 6

### Source Code

#### Index.html

Lab-Report-CSF3133 > Lab Report 6 > LabExersice6 > index.html > html > body > div#header-container

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Just Quiz</title>
5          <link rel="stylesheet" href="style.css">
6      </head>
7      <body>
8
9          <div id="header-container">
10             <header>
11                 Welcome to Just Quiz
12             </header>
13         </div>
14
15         <main>
16             <div id="timer">Time Left: <span id="time">30</span>s</div>
17
18             <div id="quiz-container">
19                 <h2 id="question"></h2>
20                 <ul id="options"></ul>
21             </div>
22
23             <br><br>
24             <div id="feedback"></div>
25
26             <button id="nextBtn" onclick="nextQuestion()">Next Question</button>
27         </main>
28
29         <footer>
30             <h3 id="score"></h3>
31         </footer>
32     </main>
33
34     <!-- Link the external JavaScript file -->
35     <script src="script.js"></script>
```

```
36
37     </body>
38 </html>
```

style.css

```
Lab-Report-CSF3133 > Lab Report 6 > LabExersice6 > # style.css > ...
1  /* Basic Style*/
2  body {
3      font-family: Arial, sans-serif;
4      background: #0f2149db;
5      padding: 20px;
6      text-align: center;
7      color: #ffffff;
8  }
9
10 #header-container{
11     background: #210044;
12     padding: 20px;
13     border-radius: 5px;
14     justify-content: center;
15     width: 50%;
16     height: 20%;
17     margin: auto;
18     box-shadow: 0 0px 10px rgba(0, 0, 0, 0.1);
19     display: flex;
20     font-weight: bold;
21 }
22 header {
23     font-family: 'Times New Roman', Times, serif;
24     font-size: 50px ;
25     text-align: center;
26     padding: 20px;
27     color: #f0f0f0;
28 }
29
30 #timer {
31     font-size: 20px;
32     margin: 10px 0;
33     font-weight: bold;
34 }
35
36 #quiz-container {
37     background: #0b074b;
```

```
38     padding: 20px;
39     border-radius: 12px;
40     width: 60%;
41     margin: auto;
42     box-shadow: 0 0px 10px rgba(0, 0, 0, 0.1);
43     font-weight: bold;
44 }
45
46 ✓ #options li {
47     background: #0f869e;
48     padding: 10px;
49     margin: 10px 20px;
50     border-radius: 6px;
51     cursor: pointer;
52     list-style: none;
53 }
54
55 ✓ #options li:hover {
56     background: #372469;
57 }
58
59 ✓ #feedback {
60     background: #b1eae3;
61     width: 60%;
62     height: 30%;
63     border-radius: 10px;
64     font-size: 18px;
65     margin: 15px 0;
66     font-weight: bold;
67     margin: auto;
68     padding: 10px;
69     box-shadow: 0 0px 10px #000408(0,0,0,0.5);
70 }
```

```
71
72 #nextBtn {
73     padding: 10px 20px;
74     margin-top: 10px;
75     background: #000408;
76     color: #fff;
77     border: none;
78     border-radius: 5px;
79     cursor: pointer;
80 }
81
82 #nextBtn:hover {
83     background: #480375;
84 }
85
86 /* Footer Styles */
87 footer {
88     text-align: center;
89     margin-top: 20px;
90     font-size: 20px;
91     color: #78ed91;
92     border-radius: 50%;
93 }
```

script.js

Lab-Report-CSF3133 > Lab Report 6 > LabExersice6 > JS script.js > questions

```
1 // Questions Array
2 const questions = [
3   {
4     question: "What is the capital of Malaysia?",
5     options: ["Johor", "Penang", "Kuala Lumpur", "Melaka"],
6     answer: "Kuala Lumpur"
7   },
8   {
9     question: "Which planet is known as the Red Planet?",
10    options: ["Earth", "Mars", "Jupiter", "Saturn"],
11    answer: "Mars"
12  },
13  {
14    question: "How many days are there in a leap year?",
15    options: ["364", "365", "366", "367"],
16    answer: "366"
17  },
18  {
19    question: "10000 - 9000 = ?",
20    options: ["1000", "2000", "3000", "4000"],
21    answer: "1000"
22  },
23  {
24    question: "What is the course code of this lab course?",
25    options: ["CSF3133", "CSF3193", "CSF3156", "CSF3103"],
26    answer: "CSF3133"
27  }
28 ];
29
30 let currentQuestion = 0;
31 let score = 0;
32 let timer;
33 let timeLeft = 30;
34
35 // Shuffle Questions
36 function shuffleQuestions() {
37   questions.sort(() => Math.random() - 0.5);
```

```

38 }
39
40 // Start Timer
41 function startTimer() {
42     timeLeft = 30;
43     document.getElementById("time").innerText = timeLeft;
44
45     timer = setInterval(() => {
46         timeLeft--;
47         document.getElementById("time").innerText = timeLeft;
48
49         if (timeLeft <= 0) {
50             clearInterval(timer);
51             nextQuestion();
52         }
53     }, 1000);
54 }
55
56 // Display Question
57 function displayQuestion() {
58     const q = questions[currentQuestion];
59     document.getElementById("question").innerText = q.question;
60
61     const optionsList = document.getElementById("options");
62     optionsList.innerHTML = "";
63
64     q.options.forEach(option => {
65         const li = document.createElement("li");
66         li.innerText = option;
67         li.onclick = () => checkAnswer(option);
68         optionsList.appendChild(li);
69     });
70 }

```



```

72 // Check Answer
73 function checkAnswer(selected) {
74     clearInterval(timer);
75
76     const correct = questions[currentQuestion].answer;
77
78     if (selected === correct) {
79         score++;
80         document.getElementById("feedback").innerText = "Correct!";
81         document.getElementById("feedback").style.color = "green";
82     } else {
83         document.getElementById("feedback").innerText = "Wrong!";
84         document.getElementById("feedback").style.color = "red";
85     }
86 }
87
88 // Next Question
89 function nextQuestion() {
90     currentQuestion++;
91
92     if (currentQuestion >= questions.length) {
93         document.getElementById("question").innerText = "Quiz Finished!";
94         document.getElementById("options").innerHTML = "";
95         document.getElementById("feedback").innerText = "";
96         document.getElementById("score").innerText = `Your Score: ${score}/${questions.length}`;
97         document.getElementById("nextBtn").style.display = "none";
98         return;
99     }
100
101     document.getElementById("feedback").innerText = "";
102     displayQuestion();
103     startTimer();
104 }

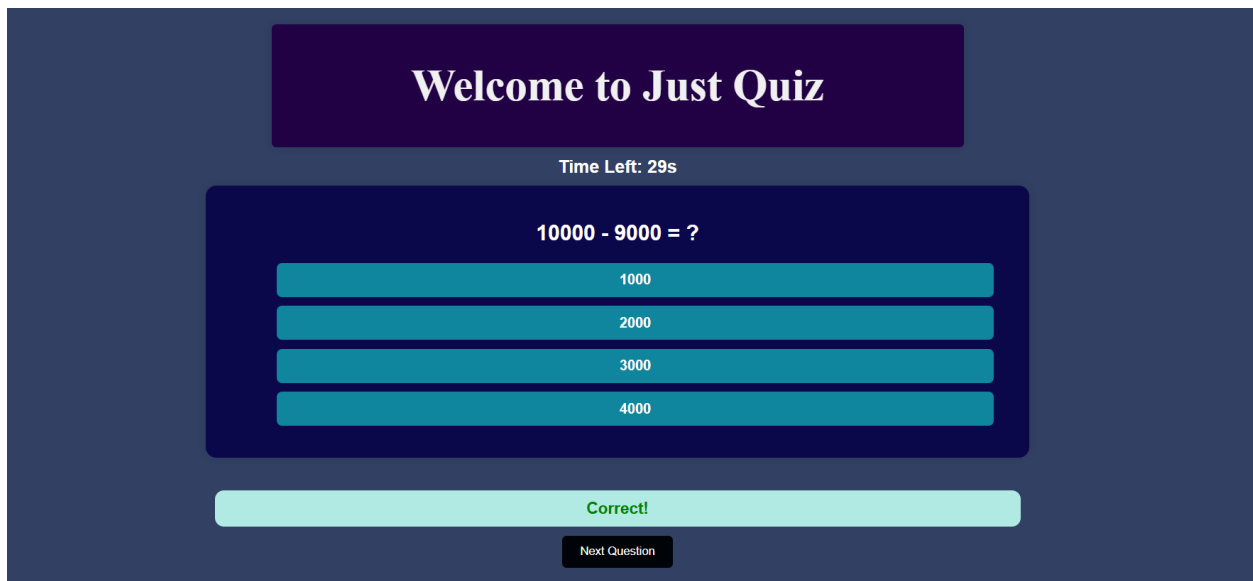
```

```

105
106 // Start Quiz
107 function startQuiz() {
108     shuffleQuestions();
109     displayQuestion();
110     startTimer();
111 }
112
113 // Start when page loads
114 window.onload = startQuiz;

```

## Output



# Welcome to Just Quiz

Time Left: 30s

How many days are there in a leap year?

364

365

366

367

Wrong!

Next Question

# Welcome to Just Quiz

Time Left: 29s

Quiz Finished!

Your Score: 4/5