



Faculty of Computer Science and Mathematics
Universiti Malaysia Terengganu

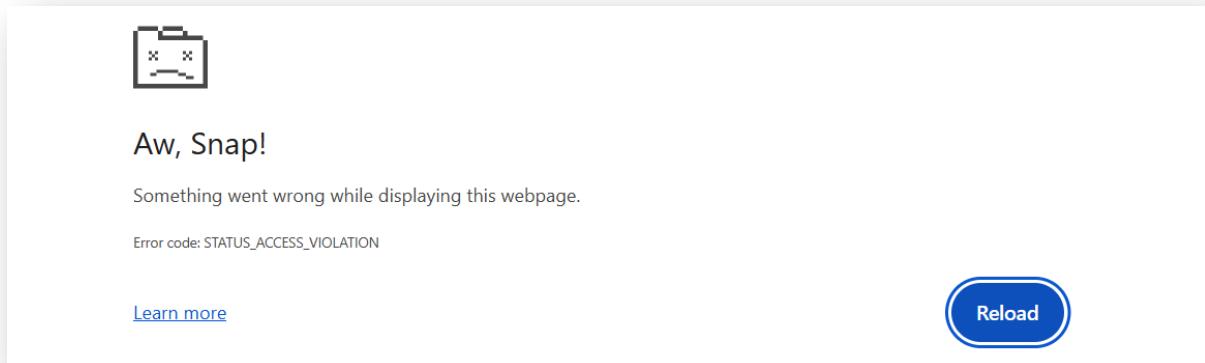
LAB REPORT

CSF3133 – REKA BENTUK ANTARA MUKA
BERASAKAN WEB

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Matric No.	S75635
Semester	2025/26-1
Lab Report	6
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6.3 basic Javascript

Before added and <h1> :

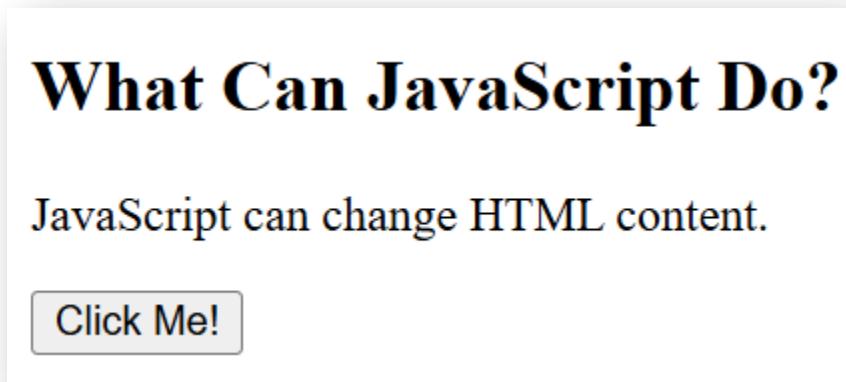


After added and <h1>:



6.4 getElementById()

Before click :



After click :

What Can JavaScript Do?

Hello JavaScript!

Click Me!

6.5 Date and Time

Before click :

Click to Show Date and Time

Click me to display Date and Time

After click :

Click to Show Date and Time

Click me to display Date and Time

Wed Dec 03 2025 11:47:13 GMT+0800 (Malaysia Time)

Display + Style the Output :

Click to Show Date and Time

Click me to display Date and Time

Wed Dec 03 2025 11:49:33 GMT+0800 (Malaysia Time)

6.6 Change HTML attributes value

When click on the on button :

What Can JavaScript Do?

JavaScript can change HTML attribute values.

In this case, it changes the value of the `src` attribute of an image.



Turn on the light

Turn off the light

When click on the off button :

What Can JavaScript Do?

JavaScript can change HTML attribute values.

In this case, it changes the value of the `src` attribute of an image.



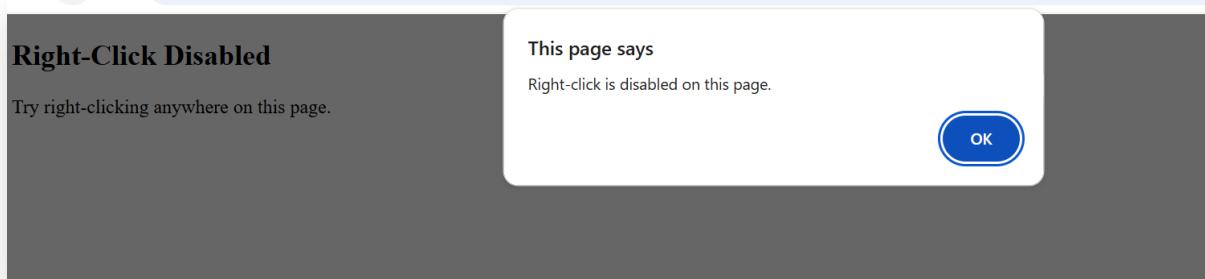
Turn on the light Turn off the light

6.7 Link to file Javascript

When I click ‘click me’ button :



6.8 Working with events



6.9 Multiplication Table

A screenshot of a web application titled "Multiplication Table Generator". It features two input fields: "Enter number of rows:" with value "3" and "Enter number of columns:" with value "4". Below these is a "Generate Table" button. To the right is a 3x4 grid of numbers:

1	2	3	4
2	4	6	8
3	6	9	12

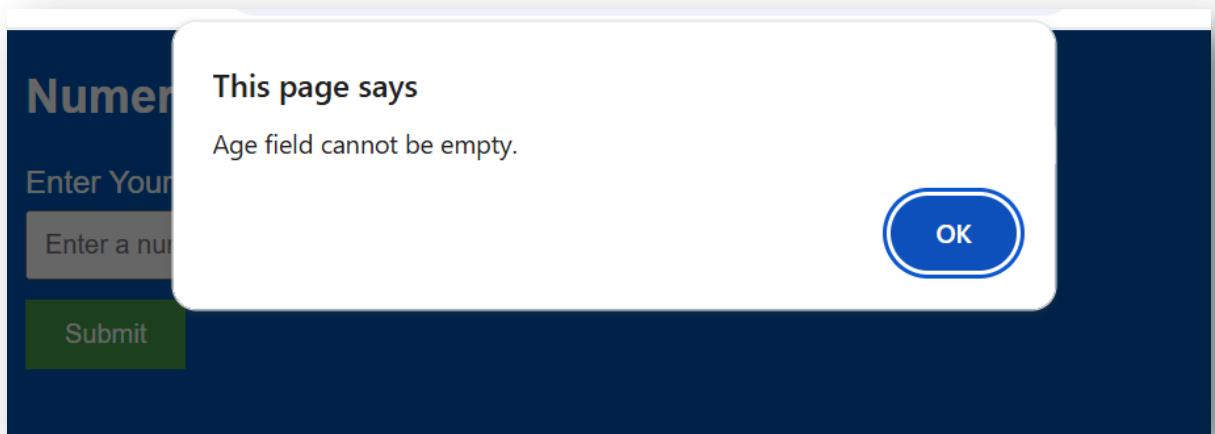
6.10 Client-side validation

Form validation :

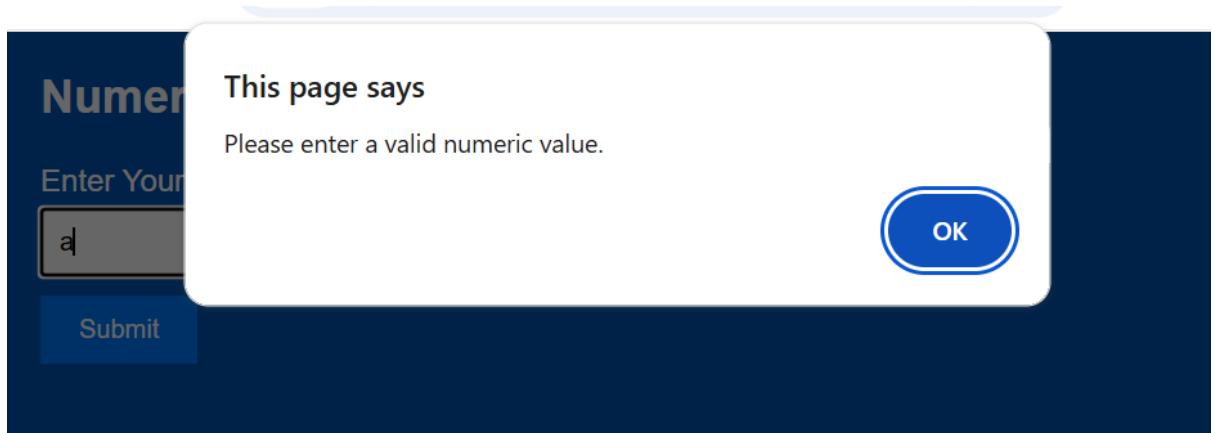
A screenshot of a web application titled "Form Validation Example". It has a single input field labeled "First Name:" and a green "Submit" button below it. A validation message box is displayed on the right, titled "This page says" with the message "First Name must be filled out." At the bottom right of the message box is a blue "OK" button.

Numeric Input Validation :

- i. Leave the input field empty



- ii. Non-numeric when I enter a



iii. When I put the number inside the range

This page says
Please enter a number between 1 and 120.

OK

The screenshot shows a dark blue web page with a light blue header containing the word "Numer". Below the header, there is a form field labeled "Enter Your" with a value of "-2" and a green "Submit" button. A white modal window is overlaid on the page, displaying the text "This page says" followed by "Please enter a number between 1 and 120." in a smaller font. In the bottom right corner of the modal, there is a blue "OK" button.

iv. Enter a valid number

This page says
Form submitted successfully!

OK

The screenshot shows a dark blue web page with a light blue header containing the word "Numer". Below the header, there is a form field labeled "Enter Your" with a value of "25" and a blue "Submit" button. A white modal window is overlaid on the page, displaying the text "This page says" followed by "Form submitted successfully!" in a smaller font. In the bottom right corner of the modal, there is a blue "OK" button.

6.11 Math Function

This page says
Wrong guess. The correct number was 3.

OK

The screenshot shows a dark grey web page with a light grey header containing the word "Guess". Below the header, there is a form field labeled "Try to guess" and a blue "Start Game" button. A white modal window is overlaid on the page, displaying the text "This page says" followed by "Wrong guess. The correct number was 3." in a smaller font. In the bottom right corner of the modal, there is a blue "OK" button.

Lab exercise

Questionn Array :

```
const questions = [
  {
    question: "What is the capital of Malaysia?",
    options: ["Kuala Lumpur", "Penang", "Johor Bahru", "Melaka"],
    answer: "Kuala Lumpur"
  },
  {
    question: "Which language is used for web styling?",
    options: ["HTML", "CSS", "JavaScript", "Python"],
    answer: "CSS"
  },
  {
    question: "What does JS stand for?",
    options: ["Java Source", "JavaScript", "Just Script", "Jumbo Style"],
    answer: "JavaScript"
  }
];
```

shuffleQuestions() :

```
let shuffledQuestions = [];
let currentQuestionIndex = 0;
let score = 0;
let timer;
let timeLeft = 30;

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

startTimer() :

```
function startTimer() {
  timeLeft = 30;
  document.getElementById("time").textContent = timeLeft;
  timer = setInterval(() => {
    timeLeft--;
    document.getElementById("time").textContent = timeLeft;
    if (timeLeft <= 0) {
      clearInterval(timer);
      checkAnswer(null); // No answer selected
    }
  }, 1000);
}
```

displayQuestion() :

```
function displayQuestion() {
  const questionObj = shuffledQuestions[currentQuestionIndex];
  document.getElementById("question").textContent = questionObj.question;
  const optionsList = document.getElementById("options");
  optionsList.innerHTML = "";

  questionObj.options.forEach(option => {
    const li = document.createElement("li");
    li.textContent = option;
    li.onclick = () => checkAnswer(option);
    optionsList.appendChild(li);
  });

  document.getElementById("feedback").textContent = "";
  startTimer();
}
```

checkAnswer() :

```
function checkAnswer(selectedOption) {
  clearInterval(timer);
  const correct = shuffledQuestions[currentQuestionIndex].answer;
  const feedback = document.getElementById("feedback");

  if (selectedOption === correct) {
    score++;
    feedback.textContent = "Correct!";
    feedback.style.color = "green";
  } else {
    feedback.textContent = `Wrong! Correct answer: ${correct}`;
    feedback.style.color = "red";
  }

  document.getElementById("score").textContent = score;
}
```

nextQuestion() :

```
function nextQuestion() {
    currentQuestionIndex++;
    if (currentQuestionIndex < shuffledQuestions.length) {
        displayQuestion();
    } else {
        document.getElementById("quiz").innerHTML = `<h3>Quiz Finished!</h3><p>Your final score is ${score} out of ${shuffledQuestions.length}.`;
    }
}
```

startQuiz() :

```
function startQuiz() {
    shuffleQuestions();
    currentQuestionIndex = 0;
    score = 0;
    displayQuestion();
}

document.getElementById("next-btn").onclick = nextQuestion;
window.onload = startQuiz;
```

Output

Welcome to the Quiz!

Answer the questions before time runs out!

What is the capital of Malaysia?

Kuala Lumpur

Penang

Johor Bahru

Melaka

Time left: 23 seconds

Correct!

Next Question

Your Score: 1

Welcome to the Quiz!

Answer the questions before time runs out!

What does JS stand for?

Java Source

JavaScript

Just Script

Jumbo Style

Time left: 28 seconds

Correct!

Next Question

Your Score: 2

Welcome to the Quiz!

Answer the questions before time runs out!

Which language is used for web styling?

HTML

CSS

JavaScript

Python

Time left: 26 seconds

Wrong! Correct answer: CSS

[Next Question](#)

Your Score: 2

Welcome to the Quiz!

Answer the questions before time runs out!

Quiz Finished!

Your final score is 3 out of 3.

Your Score: 3