



Faculty of Computer Science and Mathematics
Universiti Malaysia Terengganu

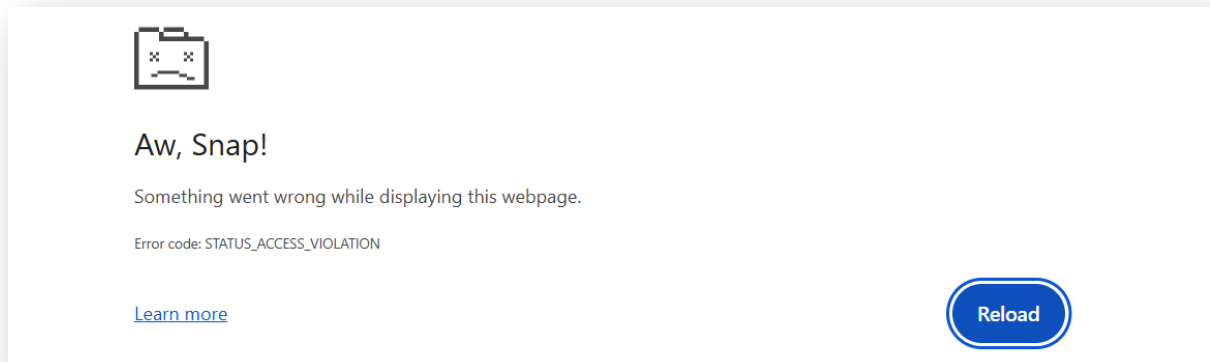
LAB REPORT

**CSF3133 – REKA BENTUK ANTARA MUKA
BERASAKAN WEB**

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Lab Report	6
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6.3 basic Javascript

Before added `` and `<h1>` :

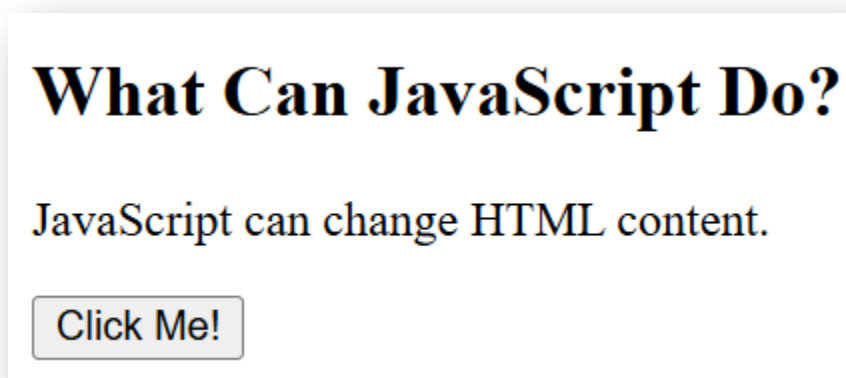


After added `` and `<h1>`:



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.

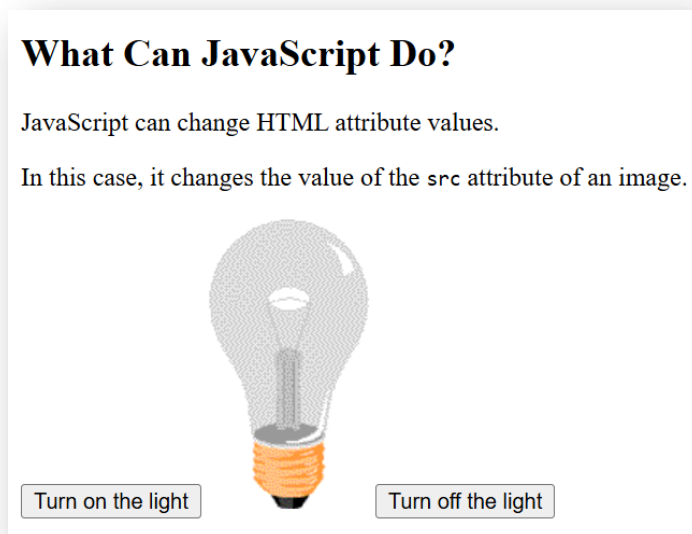
In this case, it changes the value of the src attribute of an image.



Turn on the light

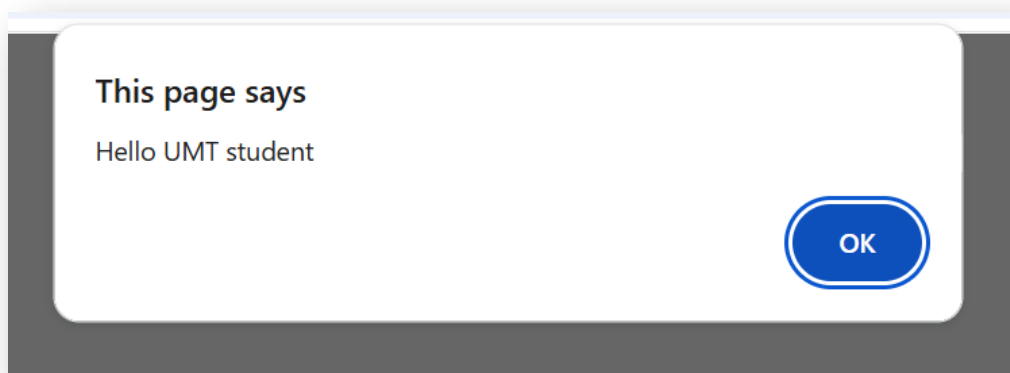
Turn off the light

When click on the off button :

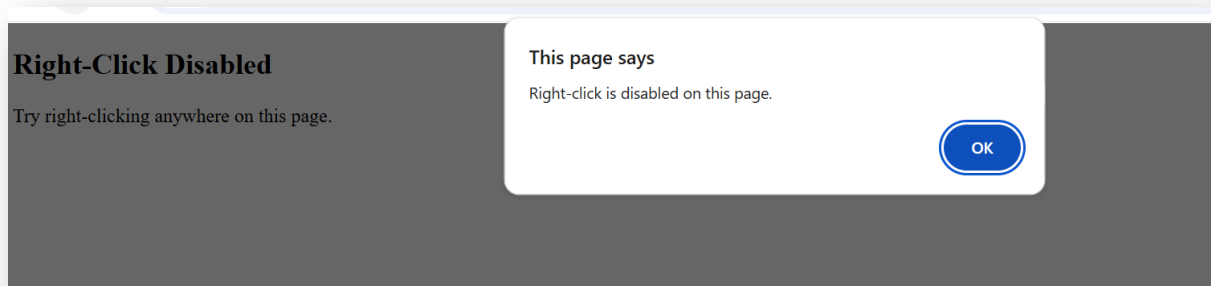


6.7 Link to file Javascript

When I click 'click me' button :



6.8 Working with events



6.9 Multiplication Table

Multiplication Table Generator

Enter number of rows:

Enter number of columns:

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

6.10 Client-side validation

Form validation :

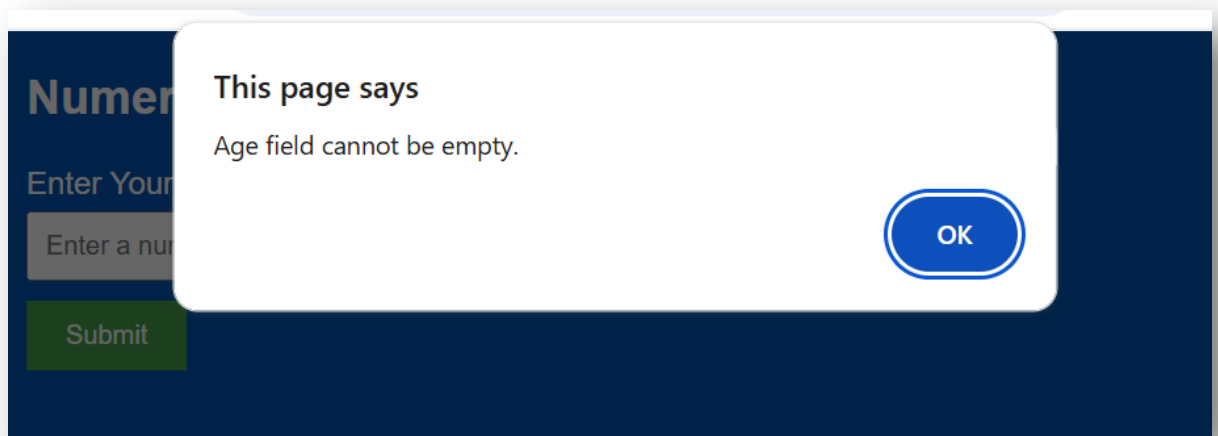
Form Validation Example

First Name:

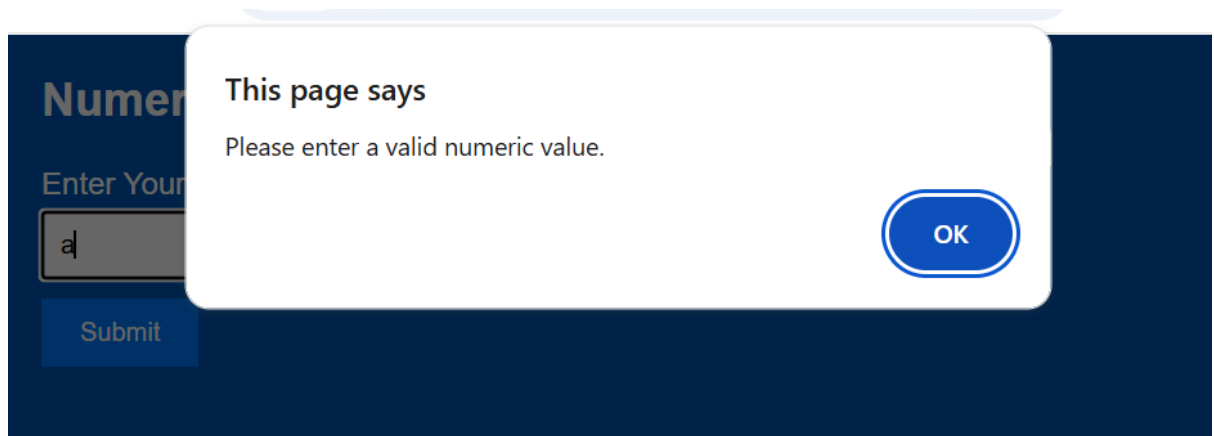
This page says
First Name must be filled out.

Numeric Input Validation :

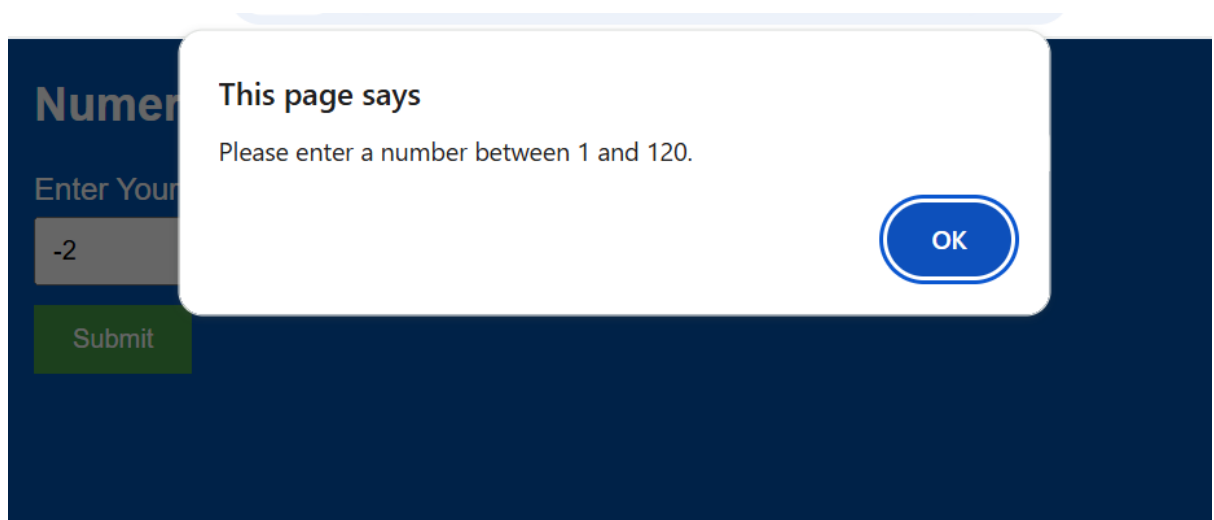
- i. Leave the input field empty



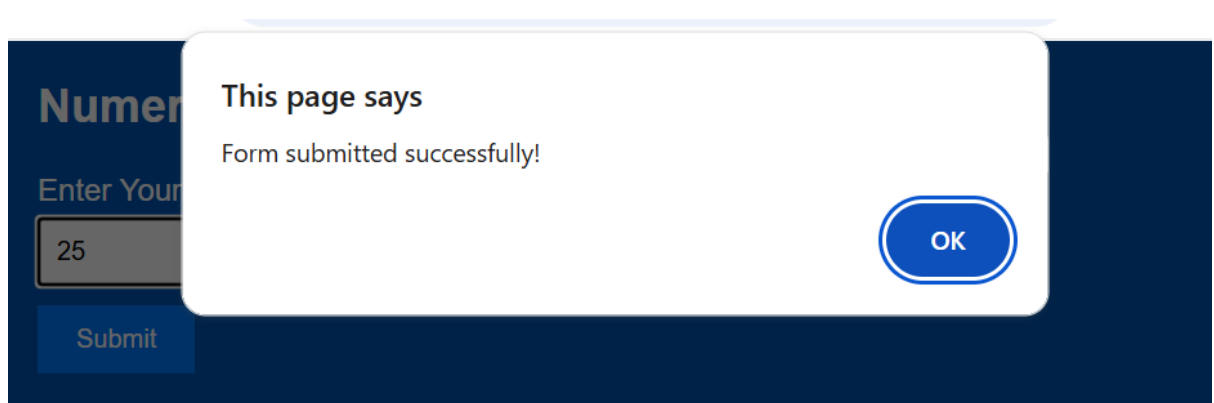
- ii. Non-numeric when I enter a



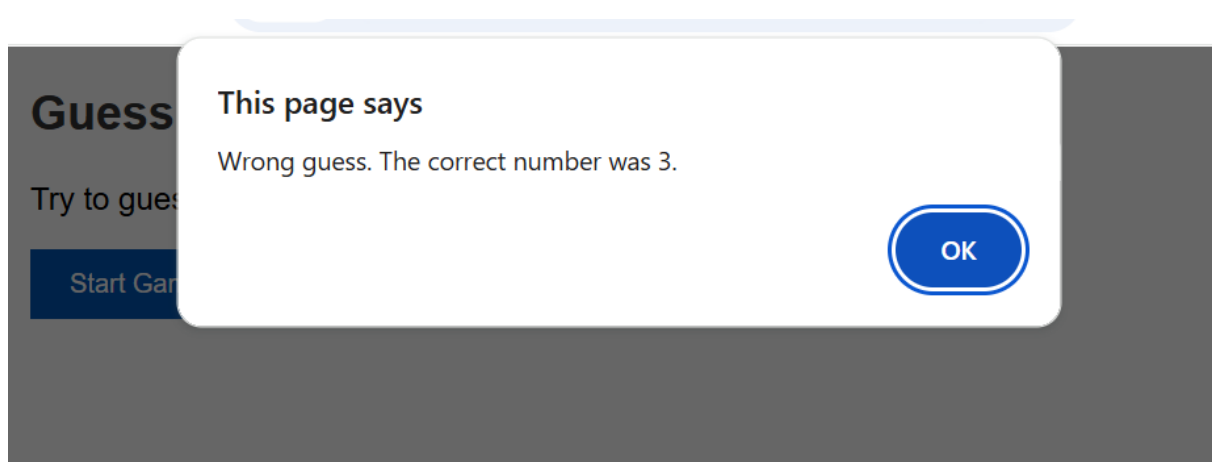
iii. When I put the number inside the range



iv. Enter a valid number



6.11 Math Function



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