



WEB-BASED INTERFACE DESIGN

(CSF3133)

Lab Report 6

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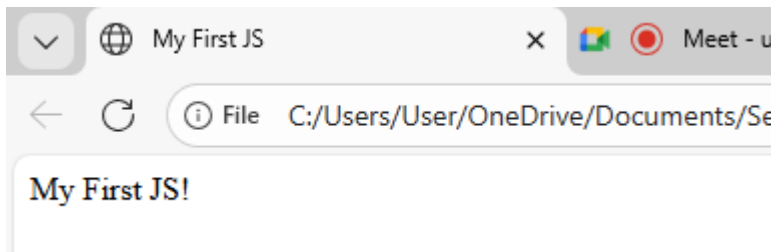
Date : 3/12/2025

Group : K4

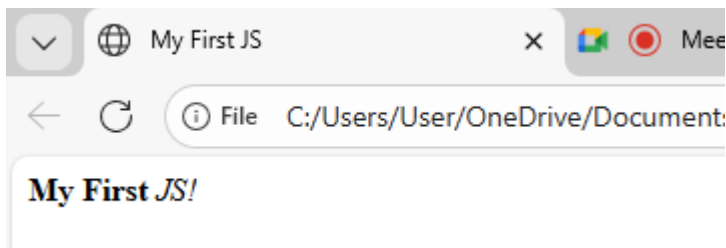
Programme : Computer Science (Software Engineering)

6.3 Basic Javascript

1.

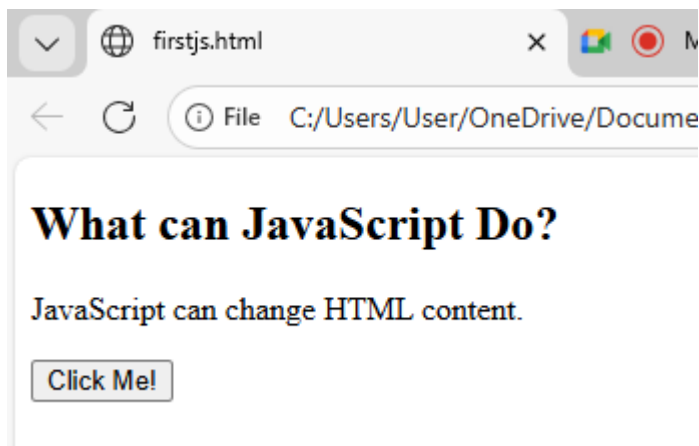


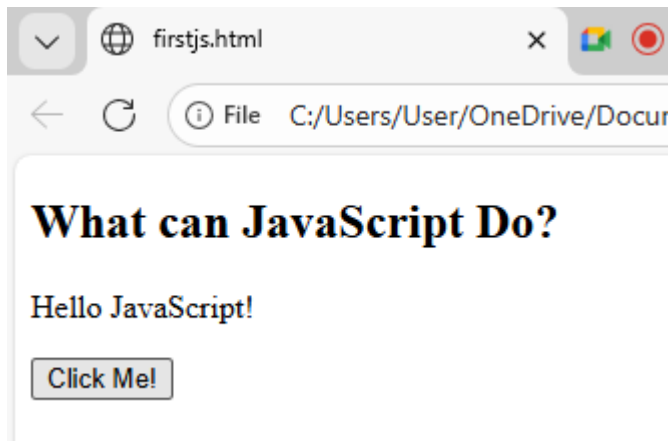
3.



6.4 getElementById()

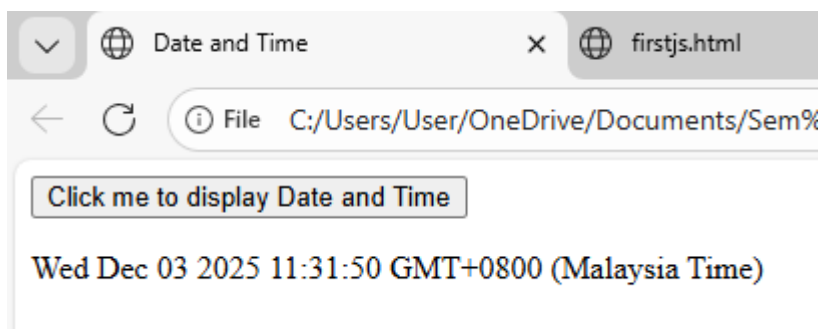
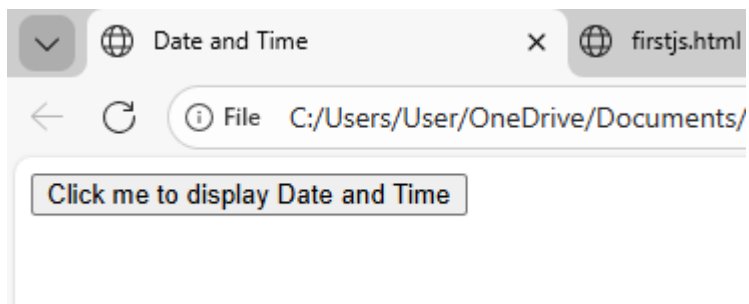
1.



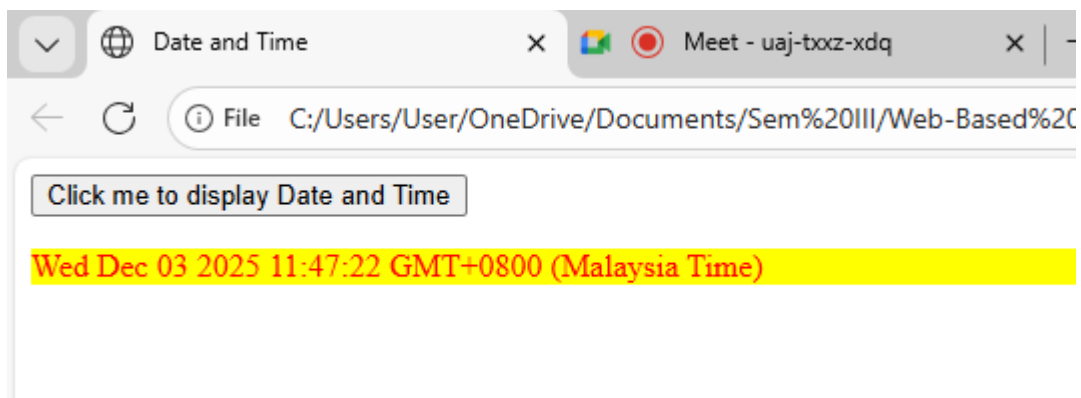


6.5 Date and Time

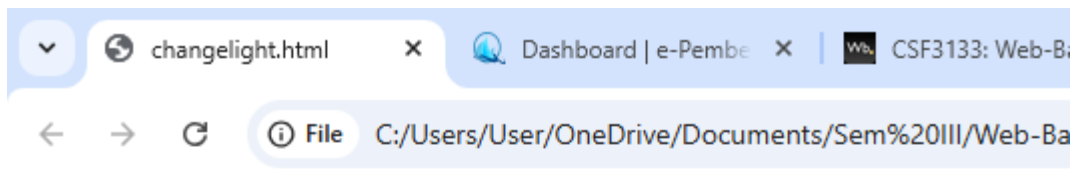
1.



2.



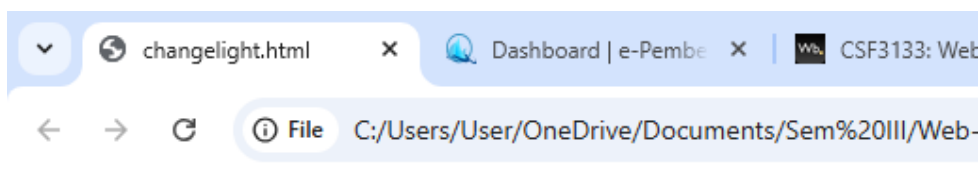
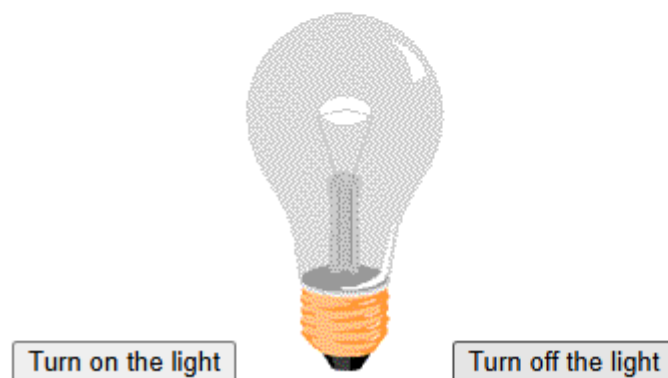
6.6 Change HTML Attribute Values



What Can JavaScript Do?

JavaScript can change HTML attribute values.

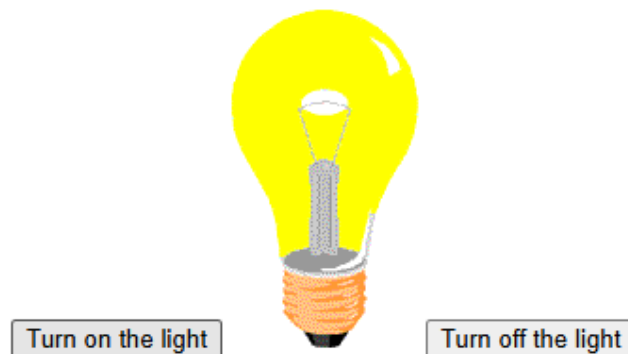
In this case, JavaScript changes the value of the 'src' attribute of an image.



What Can JavaScript Do?

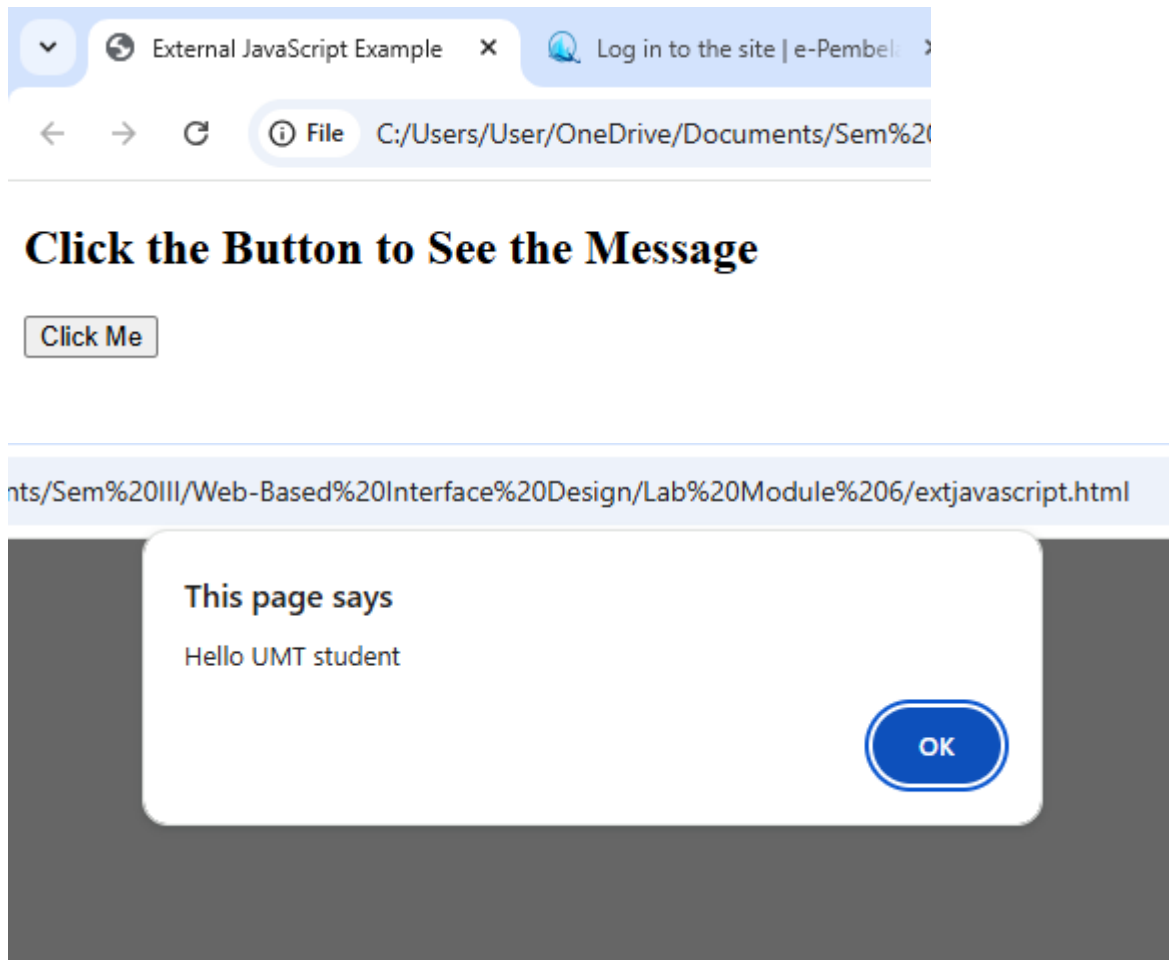
JavaScript can change HTML attribute values.

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

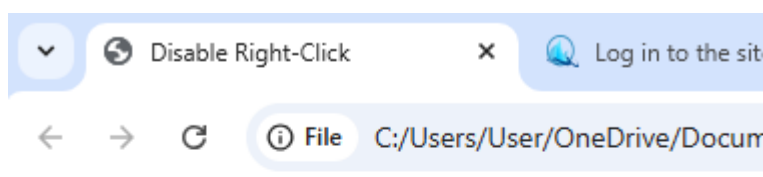


6.7 Link to file Javascript (*.js)

6.7.3 External References

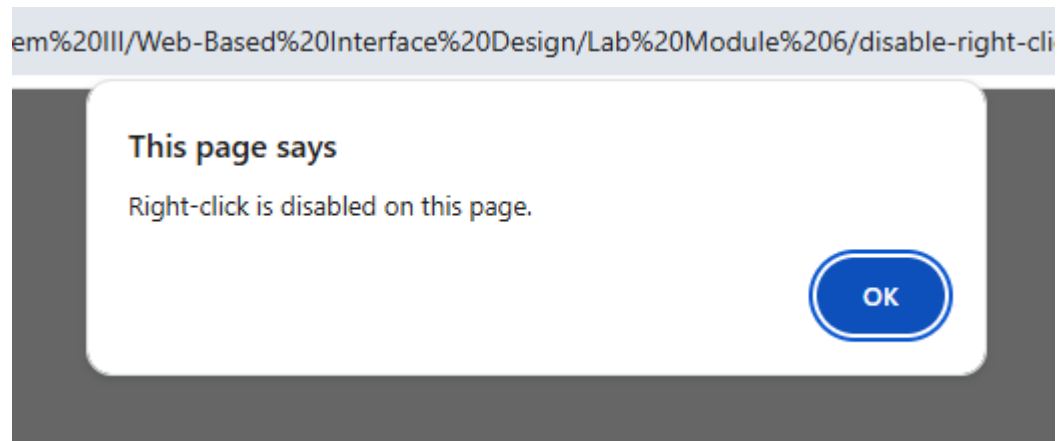


6.8 Working with events



Right-Click Disabled

Try right-clicking anywhere on this page.

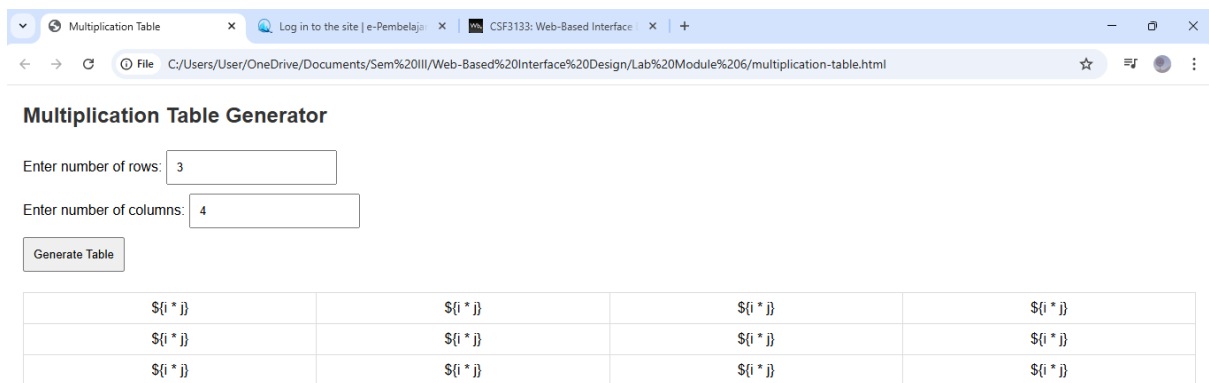


6.9 Multiplication Table

2.

A screenshot of a web browser window. The address bar shows the URL 'C:/Users/User/OneDrive/Documents/Sem%'. The page title is 'Multiplication Table'. The main heading is 'Multiplication Table Generator'. Below the heading, there are two input fields. The first is labeled 'Enter number of rows:' and contains the value '3'. The second is labeled 'Enter number of columns:' and contains the value '4'. Below these fields is a button labeled 'Generate Table'.

5.



Multiplication Table Generator

Enter number of rows:

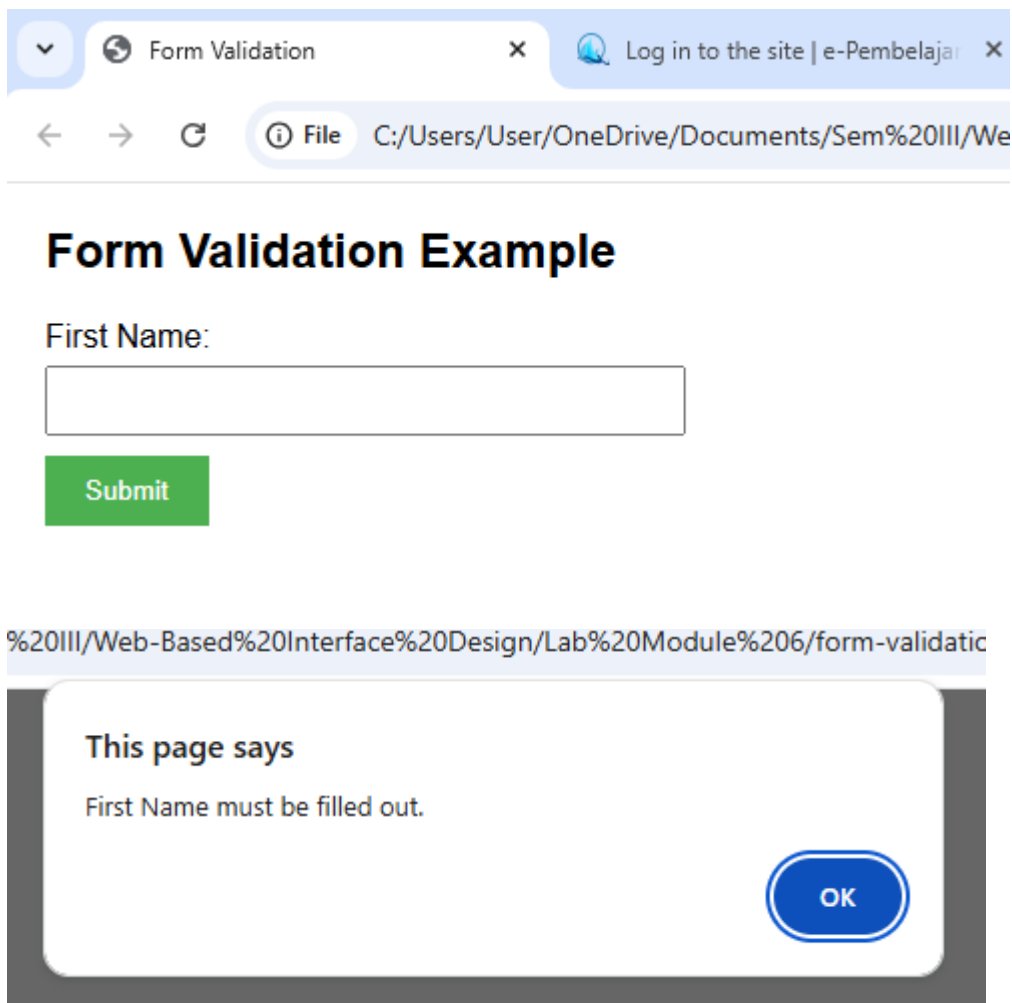
Enter number of columns:

\$(i * j)	\$(i * j)	\$(i * j)	\$(i * j)
\$(i * j)	\$(i * j)	\$(i * j)	\$(i * j)
\$(i * j)	\$(i * j)	\$(i * j)	\$(i * j)

6.10 Client-side validation

6.10.1 Form Validation

Case 1 :



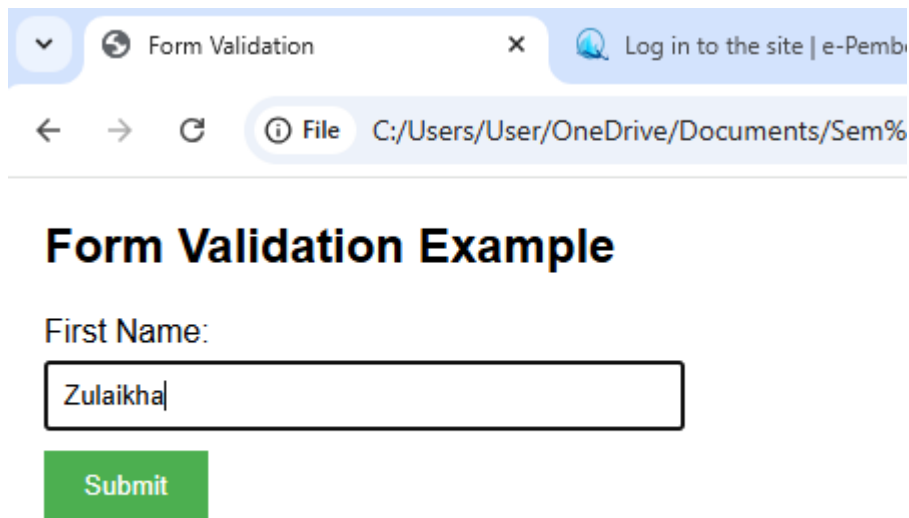
Form Validation Example

First Name:

This page says

First Name must be filled out.

Case 2 :



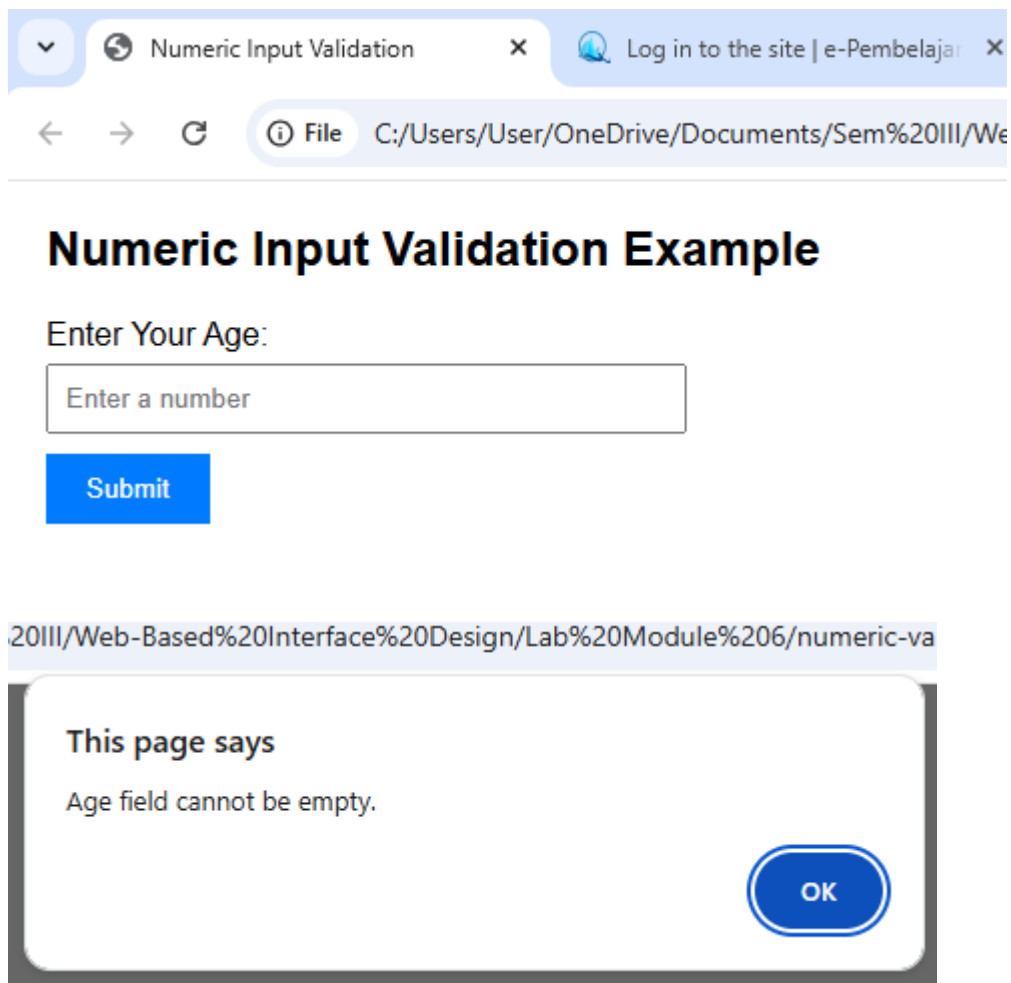
Form Validation Example

First Name:

Submit

6.10.2 Numeric Input Validation

Case 1 :



Numeric Input Validation Example

Enter Your Age:

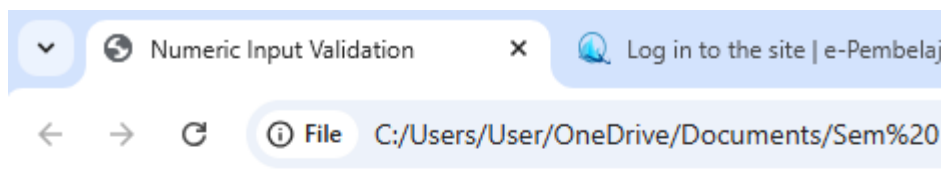
Submit

This page says

Age field cannot be empty.

OK

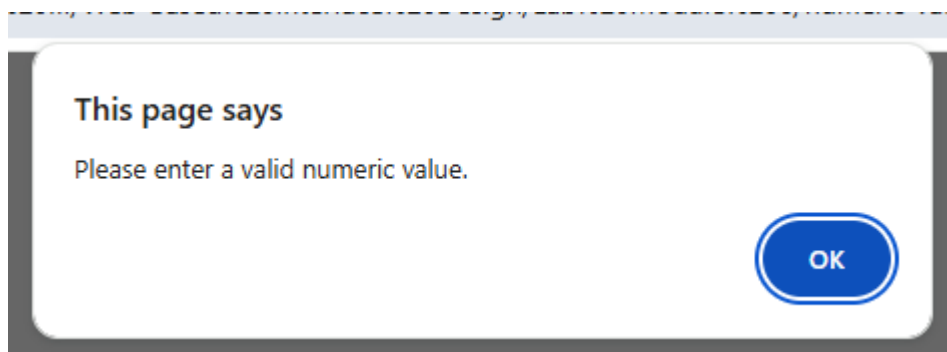
Case 2 :



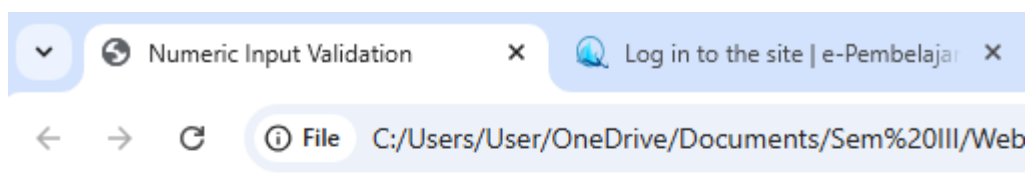
Numeric Input Validation Example

Enter Your Age:

Submit



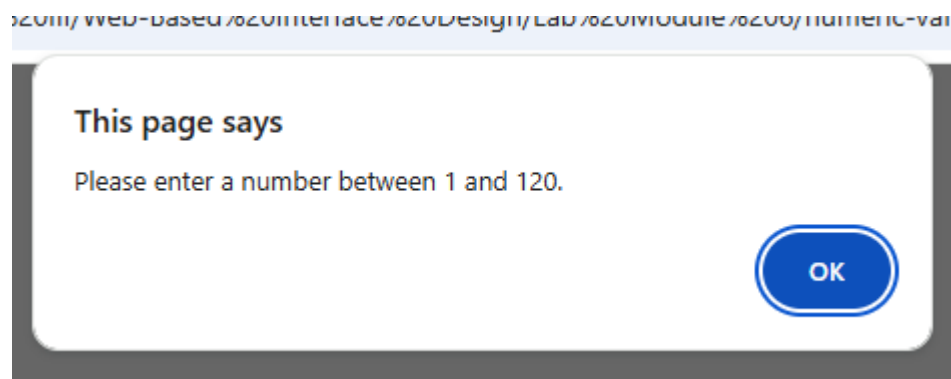
Case 3 :



Numeric Input Validation Example

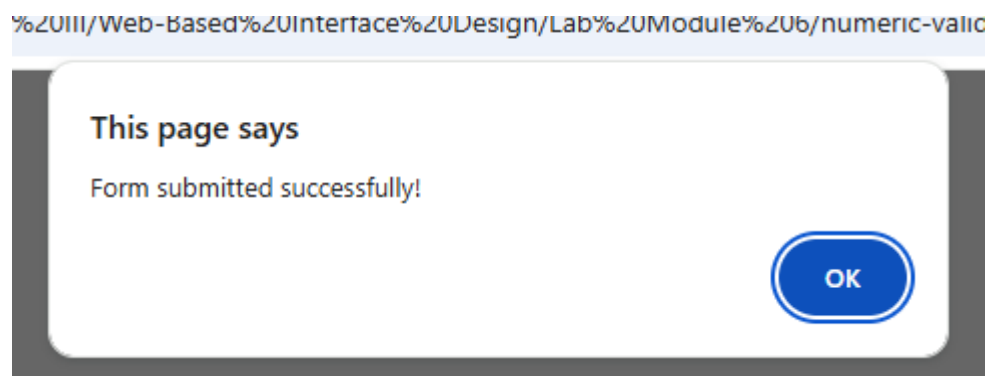
Enter Your Age:

Submit



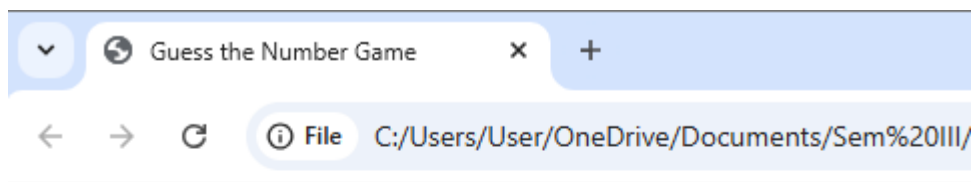
Case 4 :

A screenshot of a web browser window. The address bar shows a URL with a path ending in "numeric-val". The page title is "Numeric Input Validation Example". Below the title is a form with the label "Enter Your Age:". The form contains a text input field with the value "21". Below the input field is a blue button with the text "Submit".



6.11 Math Function

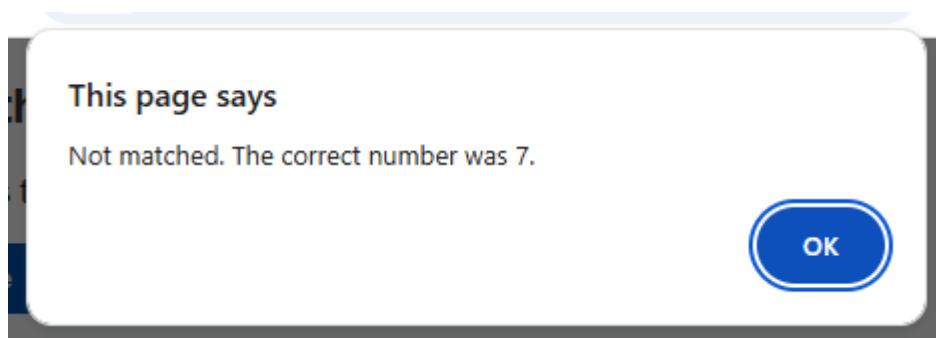
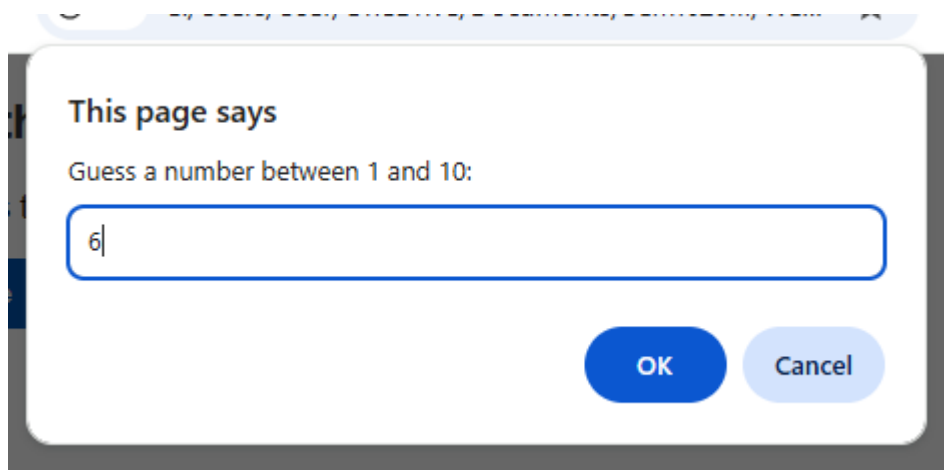
6.11.1 Guess a Number



Guess the Number Game

Try to guess the random number between 1 and 10!

Start Game



This page says

Guess a number between 1 and 10:

OK

Cancel

This page says

Good Work! You guessed it right.

OK

6.12 Lab Exercise 6

index.html :

```
index.html X # style.css 1 JS script.js
C: > Users > User > OneDrive > Documents > Sem III > Web-Based Interface Design > Lab Module 6 > index.html > html > head
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Enhypen Quiz</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10   <header> <!-- Intro -->
11     <h1>Welcome to the ENHYPEN Quiz!</h1>
12     <figure>
13        <!-- Image -->
14       <figcaption class="image-caption">Enhypen MAMA Awards 2025</figcaption>
15     </figure>
16   </header>
17
18   <h2>Choose the right answer!</h2>
19   <section id="quiz"> <!-- Display question -->
20     <div id="question-container"></div>
21     <div id="options-container"></div> <!-- Display options -->
22
23     <div id="timer">Time left: <span id="time">30</span> seconds</div> <!-- Display timer -->
24     <div id="feedback"></div> <!-- Display feedback -->
25     <button id="submit-btn">Submit Answer</button> <!-- Display submit button -->
26     <button id="next-btn" style="display:none">Next Question</button> <!-- Display navigate button -->
27   </section>
28
29   <footer>
30     <div id="score-container"></div> <!-- Display score -->
31   </footer>
32
33   <script src="script.js"></script>
34 </body>
</html>
```

style.css :

```
index.html # style.css 1 X JS script.js
C: > Users > User > OneDrive > Documents > Sem III > Web-Based Interface Design > Lab Module 6 > # style.css > header h1
1 body {
2   font-family: 'Poppins', Arial, sans-serif;
3   margin: 0;
4   background: linear-gradient(135deg, #1a1a2e, #16213e, #0f3460); /* Dark contra background */
5   color: #fff; /* Light text for contrast */
6 }
7
8 header h1 {
9   text-align: center;
10  font-size: 2.5em;
11  font-weight: bold;
12  background: linear-gradient(90deg, #ffeb3b, #ff9800, #f44336); /* bright yellow → orange → red */
13  -webkit-background-clip: text;
14  -webkit-text-fill-color: transparent;
15  text-shadow: 2px 2px 8px rgba(0,0,0,0.6);
16  margin-bottom: 10px;
17  animation: glow 3s infinite alternate;
18 }
19
20 h2 {
21   text-align: center;
```

```

22     font-size: 1.5em;
23     color: #00e5ff; /* neon cyan for contrast */
24     margin-bottom: 15px;
25     text-shadow: 1px 1px 6px rgba(0,0,0,0.7);
26 }
27
28 @keyframes glow {
29     from { text-shadow: 0 0 10px #ffeb3b, 0 0 20px #ff9800; }
30     to { text-shadow: 0 0 20px #f44336, 0 0 30px #00e5ff; }
31 }
32
33
34 /* ENHYPEN image */
35 .enhypen-img {
36     display: block;
37     margin: 15px auto;
38     max-width: 80%;
39     border: 4px solid #6a1b9a;
40     border-radius: 12px;
41     box-shadow: 0 6px 15px rgba(0,0,0,0.6);
42 }
43
44 .image-caption {
45     text-align: center;
46     font-size: 0.9em;
47     color: #ddd; /* lighter caption for dark background */
48     margin-top: 5px;
49     font-style: italic;
50 }
51
52 /* Quiz contrasts against dark background */
53 #quiz {
54     max-width: 650px;
55     margin: 40px auto;
56     padding: 25px;
57     background: linear-gradient(135deg, #ffffff, #f0f8ff); /* Light card */
58     color: #333;
59     border: 3px solid #007bff;
60     border-radius: 15px;
61     box-shadow: 0 8px 20px rgba(0,0,0,0.6);
62
63     animation: fadeIn 1s ease-in;
64 }
65
66 @keyframes fadeIn {
67     from { opacity: 0; transform: translateY(20px); }
68     to { opacity: 1; transform: translateY(0); }
69 }
70
71 #question-container {
72     font-size: 1.4em;
73     margin-bottom: 15px;
74     font-weight: bold;
75     color: #6a1b9a; /* ENHYPEN-inspired purple */
76 }
77
78 #options-container button {
79     display: block;
80     margin: 8px 0;
81     padding: 12px;
82     width: 100%;

```

```

82     border: none;
83     border-radius: 8px;
84     background: linear-gradient(135deg, #e7f0ff, #d1c4e9);
85     cursor: pointer;
86     transition: background 0.3s, transform 0.2s;
87 }
88 #options-container button:hover {
89     background: linear-gradient(135deg, #007bff, #6a1b9a);
90     color: #fff;
91     transform: scale(1.05);
92 }
93
94 #score-container {
95     text-align: center;
96     font-size: 2em;
97     font-weight: bold;
98     color: #000;
99     background-color: #fff;
100    margin: 30px auto;
101    padding: 20px;

```

```

102    width: 300px;
103    border: 2px solid #000;
104    border-radius: 10px;
105    box-shadow: 0 4px 10px rgba(0,0,0,0.2);
106 }
107

```

script.js :

```

<> index.html  # style.css 1  JS script.js  X
C: > Users > User > OneDrive > Documents > Sem III > Web-Based Interface Design > Lab Module 6 > JS script.js > nextQuestion
1  const questions = [
2      {
3          // Questions array //
4          question: "How many members are there in Enhypen?",
5          options: ["5", "7", "9", "11"],
6          answer: "7"
7      },
8      {
9          question: "What survival show were Enhypen formed on?",
10         options: ["Produce 101", "Boys Planet", "Produce X 101", "I-Land"],
11         answer: "I-Land"
12     },
13     {
14         question: "What is the title of Enhypen's debut song?",
15         options: ["Given-Taken", "Drunk-Dazed", "Tamed-Dashed", "Blessed-Cursed"],
16         answer: "Given-Taken"
17     },
18     {
19         question: "Who is the leader of Enhypen?",
20         options: ["Jungwon", "Heeseung", "Sunghoon", "Jay"],
21         answer: "Jungwon"

```

```

22     },
23     {
24         question: "Which member was a professional figure skater before debut?",
25         options: ["Heeseung", "Ni-ki", "Sunghoon", "Jake"],
26         answer: "Sunghoon"
27     },
28     {
29         question: "What is the name of Enhypen's fandom?",
30         options: ["Carat", "Engene", "E.L.F", "Wannable"],
31         answer: "Engene"
32     },
33     {
34         question: "Who is the maknae of Enhypen?",
35         options: ["Sunoo", "Ni-ki", "Jake", "Jungwon"],
36         answer: "Ni-ki"
37     },
38     {
39         question: "When did Enhypen debut?",
40         options: ["October 2020", "November 2019", "December 2020", "November 2020"],
41         answer: "October 2020"

```

```

42     },
43     {
44         question: "Which Enhypen member used to live in Australia?",
45         options: ["Sunoo", "Ni-ki", "Jay", "Jake"],
46         answer: "Jake"
47     },
48     {
49         question: "Who is the eldest member in Enhypen?",
50         options: ["Sunoo", "Sunghoon", "Jay", "Heeseung"],
51         answer: "Heeseung"
52     }
53 ];

```

```

54
55 let shuffledQuestions = [];
56 let currentQuestionIndex = 0;
57 let score = 0;
58 let timer;
59 let timeLeft = 30;
60
61 function shuffleQuestions() { // Shuffle questions //

```

```

62     shuffledQuestions = questions.sort(() => Math.random() - 0.5);
63 }
64
65 function startTimer() { // Timer //
66     timeLeft = 30;
67     document.getElementById("time").textContent = timeLeft;
68     timer = setInterval(() => {
69         timeLeft--;
70         document.getElementById("time").textContent = timeLeft;
71         if (timeLeft <= 0) {
72             clearInterval(timer);
73             checkAnswer();
74         }
75     }, 1000);
76 }
77
78 function displayQuestion() { // Display questions //
79     const questionObj = shuffledQuestions[currentQuestionIndex];
80     document.getElementById("question-container").textContent = questionObj.question;
81     const optionsContainer = document.getElementById("options-container");

```

```

82     optionsContainer.innerHTML = "";
83     questionObj.options.forEach(option => {
84         const btn = document.createElement("button");
85         btn.textContent = option;
86         btn.onclick = () => {
87             document.querySelectorAll("#options-container button").forEach(b => b.disabled = true);
88             btn.classList.add("selected");
89         };
90         optionsContainer.appendChild(btn);
91     });
92     document.getElementById("feedback").textContent = "";
93     document.getElementById("submit-btn").style.display = "inline-block";
94     document.getElementById("next-btn").style.display = "none";
95     startTimer();
96 }
97
98 function checkAnswer() {
99     clearInterval(timer);
100     const selected = document.querySelector("#options-container .selected");
101     const feedback = document.getElementById("feedback");
102
103     if (!selected) {
104         feedback.textContent = "No answer selected.";
105     } else {
106         const answer = shuffledQuestions[currentQuestionIndex].answer;
107         if (selected.textContent === answer) {
108             feedback.textContent = "Correct!";
109             score++;
110         } else {
111             feedback.textContent = `Incorrect. The correct answer was ${answer}.`;
112         }
113     }
114     document.getElementById("submit-btn").style.display = "none";
115     document.getElementById("next-btn").style.display = "inline-block";
116 }
117
118 function nextQuestion() {
119     currentQuestionIndex++;
120     if (currentQuestionIndex < shuffledQuestions.length) {
121         displayQuestion();
122     } else {
123         document.getElementById("quiz").style.display = "none";
124         document.getElementById("score-container").textContent = `Your score: ${score} / ${shuffledQuestions.length}`;
125     }
126 }
127
128 function startQuiz() {
129     shuffleQuestions();
130     currentQuestionIndex = 0;
131     score = 0;
132     displayQuestion();
133 }
134
135 document.getElementById("submit-btn").onclick = checkAnswer;
136 document.getElementById("next-btn").onclick = nextQuestion;
137 startQuiz();

```

Output :

A group photo of the K-pop group NCT 127. The seven members are standing in a row against a plain white background. They are all dressed in black suits with white shirts and black ties. The member on the far left has blonde hair, while the others have dark hair. Three of the members (the second, fourth, and sixth from the left) are holding awards that are shaped like the letters 'MMA'. The member on the far right is holding a small trophy. The group is smiling and looking towards the camera.

Choose the right answer!

Submit Answer

Correct!

[Next Question](#)



Enhypen MAMA Awards 2025

Choose the right answer!

Your score: 10 / 10