



FACULTY OF COMPUTER SCIENCE AND MATHEMATICS (FSKM)

CSF3133 WEB-BASED INTERFACE DESIGN (K4)

LAB 3

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1. Activity 3.2 – Block Inline Elements

1.1. Output for block elements

Block Elements

This is a block element

This is a paragraph (block element)

- List item 1
- List item 2

1.2. Output for inline elements

Inline Elements

This is an inline element [This is a link \(inline element\)](#) **This is bold text (inline element)**

2. Activity 3.3 – Using <div> to Organize Content

2.1. Output before modify

Header Section
Navigation Bar
Main Content
Sidebar Content
Footer Section

2.2. Output after modified

Header Section
Navigation Bar
Main Content
Sidebar Content
Footer Section

3. Activity 3.4 – Understanding HTML Entities

3.1. Output

Contoh Penggunaan Entiti HTML

Tag html terdiri daripada simbol < dan >

Entities	Symbol
ampersand	&
double quotation mark	"
single quotation mark	'
cent	¢
pound	£
yen	¥
euro	€
copyright	©
registered trademark	®
trademark	™

Website ini adalah hak milik HUDA ©

4. Activity 3.5 – Hypertext Mark Up Language 5 (HTML5)

4.1. Output

HTML5

Saya suka HTML5

- Che Ku NurulHuda Binti Che Ku Saiful Muzahar

4.2. Validation using <https://validator.w3.org/>.

Message Filtering

- Error** The character encoding was not declared. Proceeding using windows-1252.
- Error** Missing space before doctype name.
At line 1, column 10
`<!DOCTYPE><html><h>`
- Error** Nameless doctype.
At line 1, column 10
`<!DOCTYPE><html><h>`
- Error** Quirky doctype. Expected <!DOCTYPE html>.
From line 1, column 1; to line 1, column 10
`<!DOCTYPE><html>`

1.1. Validation using <https://validator.w3.org/> after fixing for <!DOCTYPE html>.

Message Filtering

1. **Error** The character encoding was not declared. Proceeding using windows-1252.

2. Activity 3.6 – Form Elements in HTML5

2.1. Activity 3.6.1 – Input Elements in HTML5

2.1.1. Output using the Chrome browser

Pilih warna kegemaran anda:

Carian:

Tarikh:

Masa:

Bulan dan Tahun:

Laman Web:

Minggu:

Email:

Hantar

1.1.1. Testing each of the input fields with Website: urlsaya and Email: my email

Pilih warna kegemaran anda:

Carian:

Tarikh:

Masa:

Bulan dan Tahun:

Laman Web:

Minggu:

Email:

Hantar

Please enter a URL.

1.2. Activity 3.6.2 – Attributes for Input HTML5

1.2.1. Output showing the input form in Mozilla

Nama Pelajar:

Nama Bapa :

Submit Query

1.2.2. Output showing the input form in Chrome

Nama Pelajar:

Nama Bapa :

1.2.3. Output using Mozilla after filling in ‘Amen’ value in the ‘Student Box’ and leave blank in the ‘Father Name’ column and click ‘save’ button.

Nama Pelajar:

Nama Bapa :

1.2.4. Output using Chrome after filling in ‘Amen’ value in the ‘Student Box’ and leave blank in the ‘Father Name’ column and click ‘save’ button. And then, refresh it.

Nama Pelajar:

Nama Bapa :

1.2.5. Observation:

- The cursor automatically appears in the "Student Name" textbox.
- The "Father Name" textbox requires input; otherwise, submission is blocked.
- The autocomplete function remembers previous input for the "Student Name" field.
- When I type “A” in *Student Name* after refreshing, the browser may suggest previous entries. Thus, the autocomplete works.

1.3. Activity 3.6.3 – HTML <Output> element

1.3.1. Output using Chrome

A screenshot of a browser window showing a numeric input field. The field has a blue slider with a circular handle positioned at the value '0'. Below the slider is a text input field containing the value '10'. To the right of the text input field is an equals sign '=' followed by the value '14'.

1.3.2. Output using Mozilla

A screenshot of a browser window showing a numeric input field. The field has a blue slider with a circular handle positioned at the value '0'. Below the slider is a text input field containing the value '10'. To the right of the text input field is a small dropdown arrow indicating it is a numeric input field. To the right of the dropdown arrow is an equals sign '=' followed by the value '14'.

2. Lab Exercise 3

2.1.HTML

```
lab3.html > html > head > style
1  <!DOCTYPE html>
2  <html lang="en">
3      <head>
4          <meta charset="UTF-8">
5          <title>Contact Form with Calculator</title>
6
7          <!--inline styling-->
8          <style>
9              body {
10                  font-family: Arial, sans-serif;
11                  background-color: #f3e8ff;
12                  margin: 0;
13                  padding: 0;
14                  color: #210039;
15              }
16
17              #header, #footer{
18                  background-color: #34003c;
19                  color: white;
20                  text-align: center;
21                  padding: 15px;
22              }
23
24              #content {
25                  max-width: 600px;
26                  margin: 30px auto;
27                  background-color: white;
28                  padding: 20px;
29                  border-radius: 15px;
30                  box-shadow: 0 0 8px rgba(108, 21, 86, 0.371);
31              }
32
33              label {
34                  display: inline-block;
35                  width: 160px;
36                  margin-bottom: 8px;
37              }
38
39          </style>
40      </head>
41
42      <body>
43
44          <!-- 2. Define the structure -->
45          <!--2.1 A header section for the website title-->
46          <div id="header">
47              <!--3.1 Header setion: header that displays the title of the webpage using a block element like <h1>-->
48              <h1>Interactive Contact Form</h1>
49              <!--3.2 Header setion: Inline element to add a slogan or subtitle-->
50              <span>A Simple Way to Communicate and Calculate.</span>
51          </div>
52
53          <!--2.2 A content section containing the contact form and calculator-->
54          <div id="content">
55
56              <!--4.1 Content section: HTML5 elements inside a second <div>-->
57              <div class="contact-form">
58                  <form action="#" method="post">
59                      <label for="email">Email:</label>
60                      <input type="email" id="email" name="email" required placeholder="example@mail.com"><br>
61
62                      <label for="contact-date">Preferred Contact Date:</label>
63                      <input type="date" id="contact-date" name="contact-date" required><br>
64
65                      <label for="satisfaction">Rate Our Tool:</label>
66                      <input type="range" id="satisfaction" name="satisfaction" min="0" max="10" step="1" value="5"><br>
67
68                      <input type="submit" value="Submit">
69                  </form>
70              </div>
71          </div>
```

```

72      <!--4.1 Content section: inline calculator for third <div>-->
73      <br>
74      <hr>
75      <div class="calculator">
76          <h2>Math Practice Calculator</h2>
77          <p>Enter two numbers to calculate their <strong>sum, difference, product, and average</strong>:</p>
78
79          <form oninput=">
80              sum.value = parseInt(num1.value) + parseInt(num2.value);
81              diff.value = parseFloat(num1.value) - parseFloat(num2.value);
82              prod.value = parseFloat(num1.value) * parseFloat(num2.value);
83              avg.value = ((parseFloat(num1.value) + parseFloat(num2.value)) / 2).toFixed(2);
84          ">
85
86              <label for="num1">Number 1:</label>
87              <input id="num1" type="number" name="num1" value="0"><br>
88
89              <label for="num2">Number 2:</label>
90              <input id="num2" type="number" name="num2" value="0"><br>
91
92              <label>Sum :</label>
93              <output name="sum" for="num1 num2">0</output><br>
94
95              <label>Difference :</label>
96              <output name="diff" for="num1 num2">0</output><br>
97
98              <label>Product :</label>
99              <output name="prod" for="num1 num2">0</output><br>
100
101              <label>Average :</label>
102              <output name="avg" for="num1 num2">0</output>
103          </form>
104      </div>
105  </div>
106
107  <!--2.3 A footer section with contact information-->
108  <!--5 Footer Section: -->
109  <div id="footer">
110      | &copy; 2025 Che Ku NurulHuda. All rights reserved.
111  </div>
112
113  </body>
114  </html>

```

2.2.Output

The screenshot shows a web page with a dark purple header and footer, and a light purple main content area. The header contains the title "Interactive Contact Form" and a subtitle "A Simple Way to Communicate and Calculate.". The main content area features a form for contacting the developer and a calculator for performing basic arithmetic operations on two input numbers.

Contact Form Fields:

- Email: example@gmail.com
- Preferred Contact Date: 05/11/2025
- Rate Our Tool: A horizontal slider set to 5.
- Submit button

Math Practice Calculator Results:

Enter two numbers to calculate their **sum, difference, product, and average**:

Number 1:	6
Number 2:	4
Sum :	10
Difference :	2
Product :	24
Average :	5.00

Footer:

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