Web-based Interface Design (CSF3133)

LAB MODULE 1

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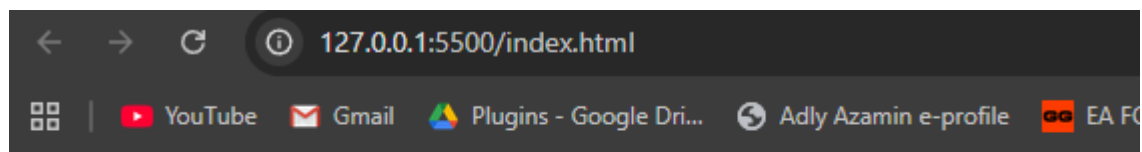**Date: 22/10/2025**

Group: K4

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Programme: Computer Science (Software Engineering)

1.4 Structure of an HTML Document

```
<> index.html ✕

<> index.html > ...
    1   <!DOCTYPE html>
    2   <html lang="en">
    3   <head>
    4       <meta charset="UTF-8">
    5       <meta name="viewport" content="width=device-width,
    6       initial-scale=1.0">
    7       <title>My First Web Page</title>
    8   </head>
    9   <body>
   10       <h1>Welcome to My First Web Page</h1>
   11   </body>
   12   </html>
```

Output:

```
←  →  C   ⓘ  127.0.0.1:5500/index.html

⊞  |  ▶ YouTube   M Gmail   ▲ Plugins - Google Dri...   🌐 Adly Azamin e-profile   GG EA FC
```

Welcome to My First Web Page

1.5 Basic HTML Tags

```
<> index.html ✕

<> index.html > ⬡ html > ⬡ body > ⬡ h4
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width,
6        initial-scale=1.0">
7        <title>My First Web Page</title>
8    </head>
9    <body>
10       <h1>Welcome to My First Web Page</h1>
11       <h2>This is an H2 Headings</h2>
12       <h3>This is an H3 Headings</h3>
13       <h4>This is an H4 Headings</h4>
14   </body>
15   </html>
```
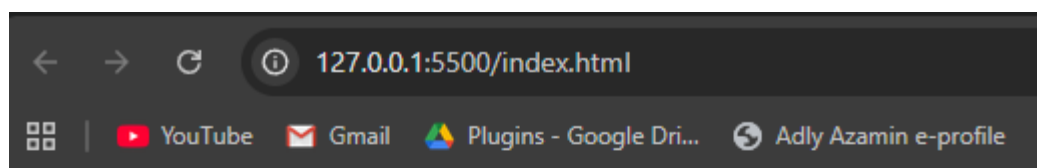
Output:

```
←    →    C    ⓘ   127.0.0.1:5500/index.html

▦  |  ▶ YouTube    M Gmail    ▲ Plugins - Google Dri...    🌐 Adly Azamin e-profile
```

Welcome to My First Web Page

This is an H2 Headings

This is an H3 Headings

This is an H4 Headings

1.5.2 Paragraphs and Text Formatting

```html
index.html ×
index.html > ❤ html
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width,
6        initial-scale=1.0">
7        <title>My First Web Page</title>
8    </head>
9    <body>
10       <h1>Welcome to My First Web Page</h1>
11       <h2>This is an H2 Headings</h2>
12       <h3>This is an H3 Headings</h3>
13       <h4>This is an H4 Headings</h4>
14
15       <p>This is a paragraph of text.</p>
16       <p>This text is <strong>bold</strong> and this is <em>italic</em>.
17       </p>
18       <p>Here is a line break: <br>This text is on a new line.</p>
19   </body>
20   </html>
```
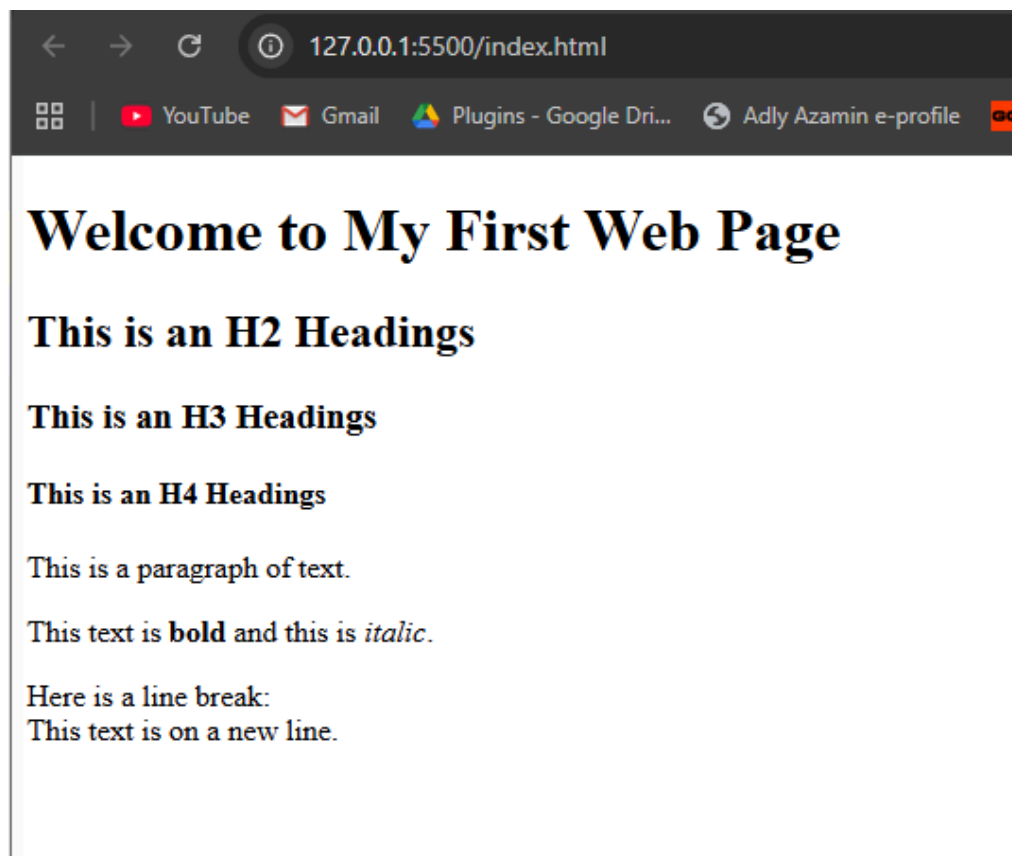
Output:

1.5.3 Lists (Ordered and Unordered)

```
20        <h2>My Favorite Fruits</h2>
21        <ol>
22            <li>Apples</li>
23            <li>Bananas</li>
24            <li>Cherries</li>
25        </ol>
26
27        <h2>Things to Do</h2>
28        <ul>
29            <li>Study HTML</li>
30            <li>Practice coding</li>
31            <li>Build a website</li>
32        </ul>
33    </body>
34  </html>
```

Output:

My Favorite Fruits

1. Apples
2. Bananas
3. Cherries

Things to Do

- Study HTML
- Practice coding
- Build a website

1.6 Links and Images

1.6.1 Add a Hyperlink

```
33
34        <p>Visit <a href="https://www.example.com" target="_blank">
35        Example.com</a> for more information.</p>
36    </body>
37    </html>
```
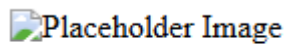
Output:

Things to Do

- Study HTML
- Practice coding
- Build a website

Visit Example.com for more information.

1.6.2 Insert an Image

```
36
37        <img src="https://via.placeholder.com/150" alt="Placeholder Image">
38    |
39    </body>
40    </html>
```
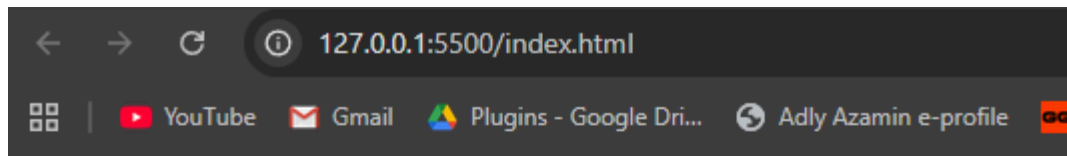
Output:

Placeholder Image

1.6.3 Commenting in HTML

```
39        <!-- This is a comment and will not be displayed in the browser -->
40    </body>
41    </html>
```

Full Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
    <title>My First Web Page</title>
</head>
<body>
    <h1>Welcome to My First Web Page</h1>
    <h2>This is an H2 Headings</h2>
    <h3>This is an H3 Headings</h3>
    <h4>This is an H4 Headings</h4>

    <p>This is a paragraph of text.</p>
    <p>This text is <strong>bold</strong> and this is <em>italic</em>.
    </p>
    <p>Here is a line break: <br>This text is on a new line.</p>

    <h2>My Favorite Fruits</h2>
    <ol>
        <li>Apples</li>
        <li>Bananas</li>
        <li>Cherries</li>
    </ol>

    <h2>Things to Do</h2>
    <ul>
        <li>Study HTML</li>
        <li>Practice coding</li>
        <li>Build a website</li>
    </ul>

    <p>Visit <a href="https://www.example.com" target="_blank">
    Example.com</a> for more information.</p>

    <img src="https://via.placeholder.com/150" alt="Placeholder Image">

    <!-- This is a comment and will not be displayed in the browser -->
</body>
</html>
```

Output:

Welcome to My First Web Page

This is an H2 Headings

This is an H3 Headings

This is an H4 Headings

This is a paragraph of text.

This text is **bold** and this is *italic*.

Here is a line break:
This text is on a new line.

My Favorite Fruits

1. Apples
2. Bananas
3. Cherries

Things to Do

- Study HTML
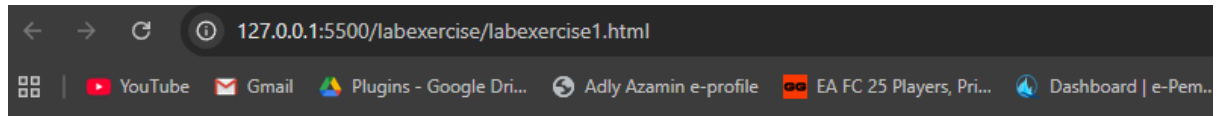- Practice coding
- Build a website

Visit Example.com for more information.

Placeholder Image

Lab Exercise 1

```
<> labexercise1.html ×
labexercise > <> labexercise1.html > ⊘ html > ⊘ body > ⊘ img
  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>Webpage about Me</title>
  7   </head>
  8   <body>
  9       <!-- Basic Details -->
 10       <h1>ADLY AZAMIN BIN AZMAN</h1>
 11       <h2>Software Engineering Student</h2>
 12
 13       <!-- Short Paragraph -->
 14       <p>I like to play the <strong>guitar</strong> and listen to <strong>rock music.</strong></p>
 15       <p>Other than that, i also love to <em>explore</em> songs from different bands and play <em>video games</em>.</p>
 16
 17       <!-- List of favourite movies -->
 18       <h2>My Favourite Movies (Ranked):</h2>
 19       <ol>
 20           <li>Rush Hour</li>
 21           <li>John Wick</li>
 22           <li>Johnny English</li>
 23       </ol>
 24
 25       <!-- Hobbies List -->
 26       <h2>My Top 3 Favourite Hobbies:</h2>
 27       <ul>
 28           <li>Playing the Guitar</li>
 29           <li>Listening to Music</li>
 30           <li>Watch YouTube</li>
 31       </ul>
 32
 33       <!-- Link to YouTube -->
 34       <p><a href="https://www.youtube.com/"target="_blank">This</a> is where i watch videos most of the time.
 35       Usually to learn songs on the guitar and watch people livestreaming.</p>
 36
 37       <!-- Image -->
 38       <img src="image/adly.jpg" alt="A picture of me playing the guitar" width="400" height="500">
 39   </body>
 40   </html>
```

Output:

⊞ | ▶ YouTube M Gmail ▲ Plugins - Google Dri... 🌐 Adly Azamin e-profile GG EA FC 25 Players, Pri... 🔷 Dashboard | e-Pem...

ADLY AZAMIN BIN AZMAN

Software Engineering Student

I like to play the **guitar** and listen to **rock music.**

Other than that, i also love to *explore* songs from different bands and play *video games*.

My Favourite Movies (Ranked):

1. Rush Hour
2. John Wick
3. Johnny English

My Top 3 Favourite Hobbies:

- Playing the Guitar
- Listening to Music
- Watch YouTube

This is where i watch videos most of the time. Usually to learn songs on the guitar and watch people livestreaming.