CSF3133

WEB-BASED INTERFACE DESIGN

LAB MODULE 1

INTRODUCTION TO HTML

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LAB MODULE 1: INTRODUCTION TO HTML (PART 1)

HTML (HyperText Markup Language) is the standard language used to create web pages. It provides the structure for websites by defining elements such as headings, paragraphs, links, images, and more. Every website you visit on the Internet is built using HTML, which is the foundation of web development.

In this first lab, you will be introduced to the basics of HTML and learn how to create your own simple webpage. You will understand the key components of an HTML document, explore essential tags, and gain hands-on experience by writing and running your first HT code.

HTML is essential for any web development role, and mastering these fundamentals will help you progress into more advanced topics like CSS (for styling) and JavaScript (for interactivity).

1.1 Objectives

By the end of this lab, you will have a basic understanding of

1. Understand the structure of an HTML document.

2. Learn to use basic HTML tags for text. formatting, creating lists, adding links, and inserting images.

1.2 Pre-requisite

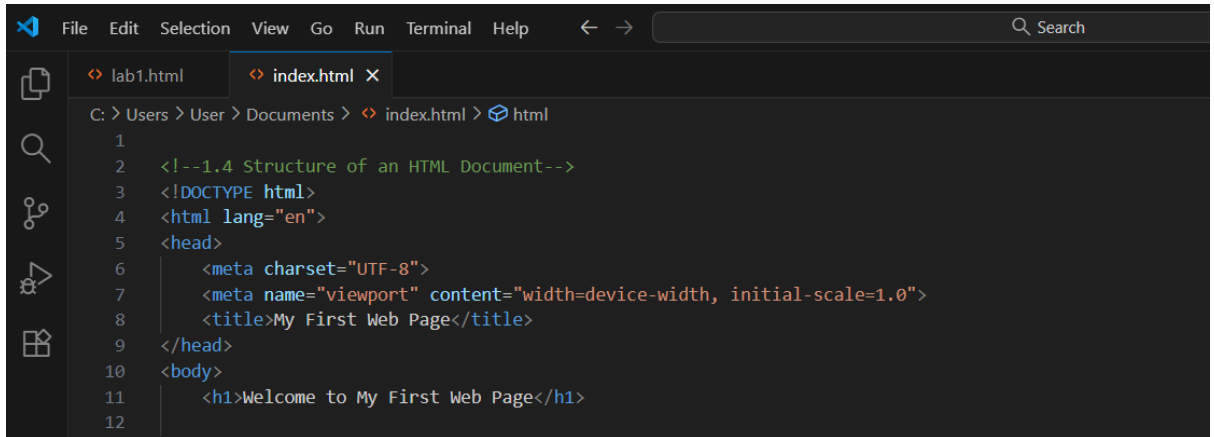No prior coding experience is necessary.

1.3 Materias

1. Text editor (e.g., Visual Studio Code, Sublime Text, or Notepad++).

2. Web Browser (e.g., Google Chrome, Firefox).

1.4 Structure of an HTML Document

Instruction

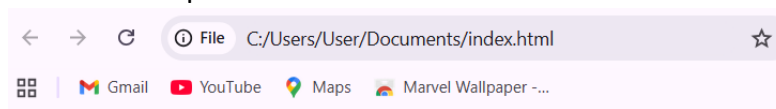1. New file was create and save as index.html.

2. The basic structure of an HTM document was added.

3. The file was opened in a web browser to see the result.

Welcome to My First Web Page

1.5 Basic HTML Tags

1.5.1 Headings

1. Add various heading levels to your document.

Output:

Welcome to My First Web Page

This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

1.5.2 Paragraph and Text Formatting

1. Learn to use parapragh, bold, italic, and line breaks.


```html
<!--1.4 Structure of an HTML Document-->
<!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>

<!--1.5 Basic HTML Tags-->
<!--1.5.1 Headings-->

    <h2>This is an H2 Heading</h2>
    <h3>This is an H3 Heading</h3>
    <h4>This is an H4 Heading</h4>

<!--1.5.2 Paragraph and Text Formatting-->

    <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>
```
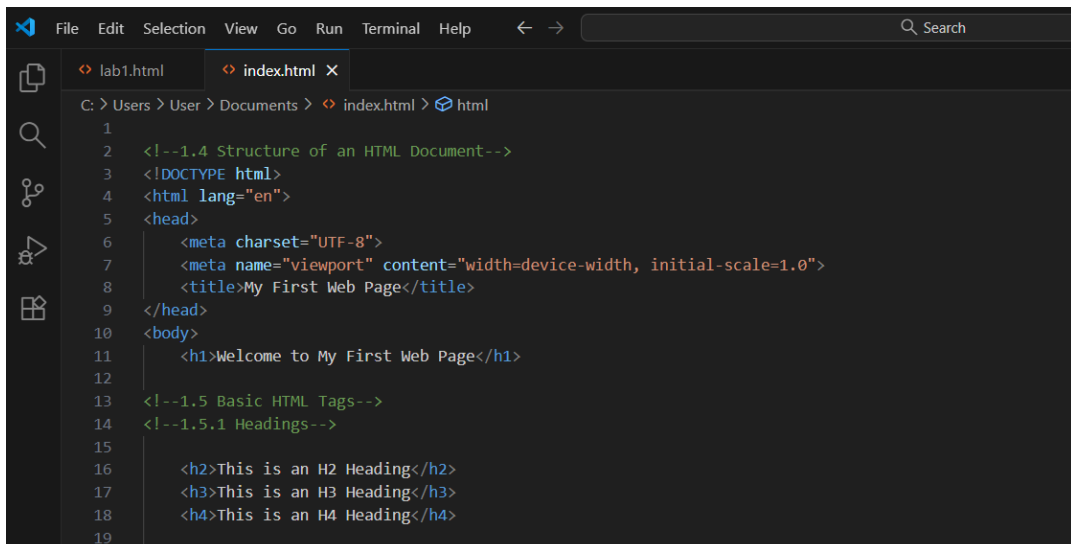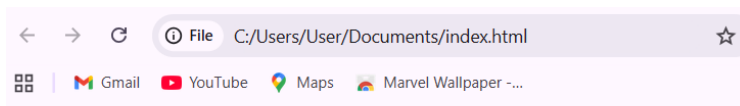
Output:

Welcome to My First Web Page

This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

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.

1.5.3 Lists (Ordered and Unordered)

1. Create a numbered list and a bullet list

```html
26    <!--1.5.3 List ordered and unordered-->
27
28        <h2>My Favorite Fruits</h2>
29        <ol>
30            <li>Apples</li>
31            <li>Bananas</li>
32            <li>Cherries</li>
33        </ol>
34
35        <h2> Things to DO</h2>
36        <ul>
37            <li>Study HTML</li>
38            <li>Practice Coding</li>
39            <li>Build a website</li>
40        </ul>
41
```

Output:

File C:/Users/User/Documents/index.html

Gmail   YouTube   Maps   Marvel Wallpaper -...

Welcome to My First Web Page

This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

This is a paragraph of text.

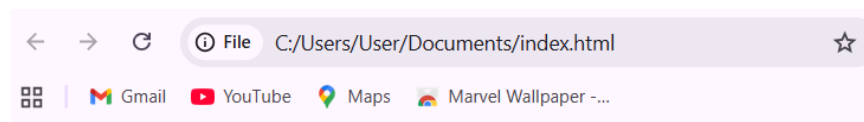This text is **bold** and this is *italic*.

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

1.6 Links and Images

1.6.1 Add a Hyperlink

1. Create a clickable link to another website.

1.6.2 Insert an Image
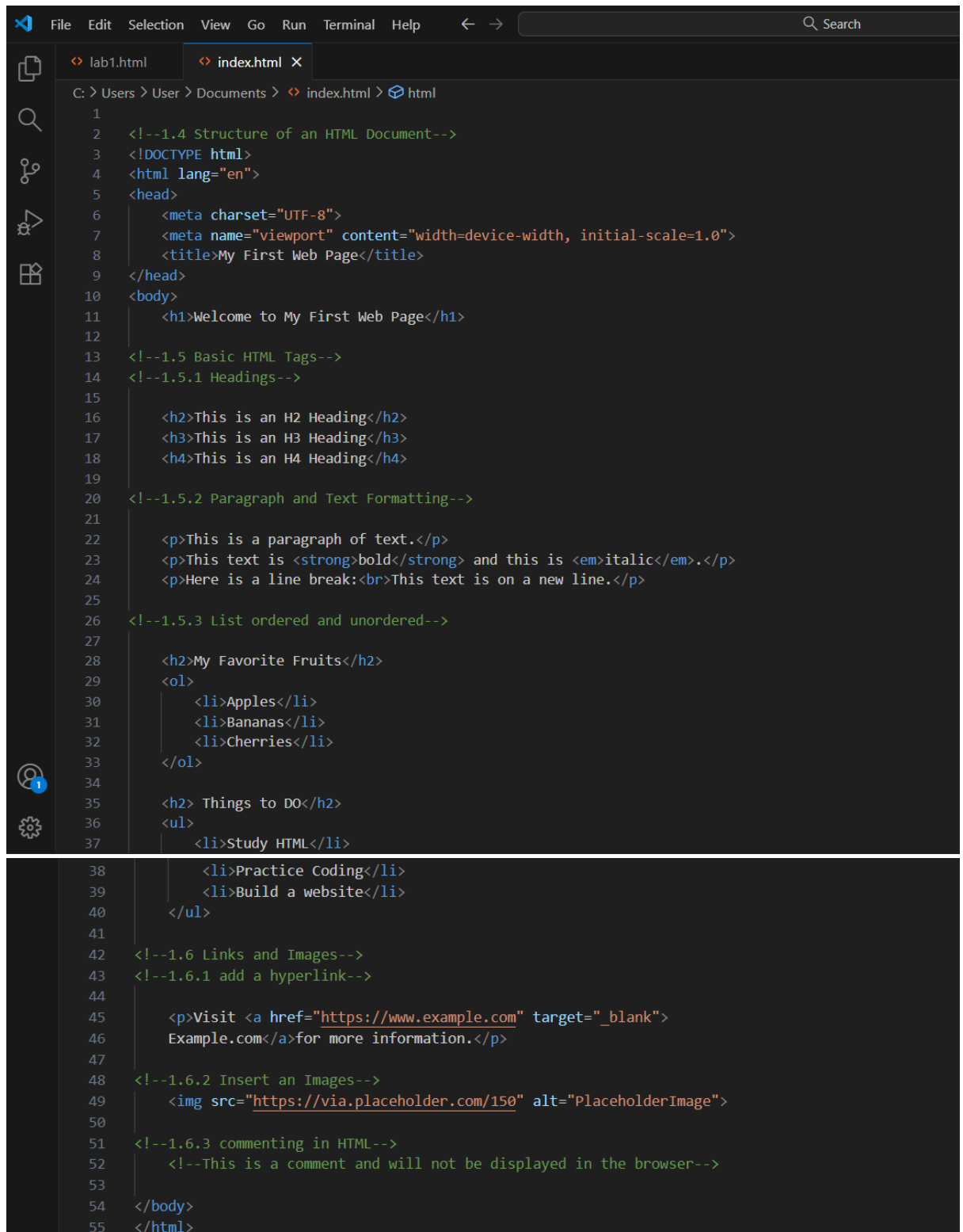
1. Display an image on your page.

1.6.3 Commenting in HTML

1. Learn to add a comment that will not be displayed on the webpage.

```html
41
42    <!--1.6 Links and Images-->
43    <!--1.6.1 add a hyperlink-->
44
45        <p>Visit <a href="https://www.example.com" target="_blank">
46        Example.com</a>for more information.</p>
47
48    <!--1.6.2 Insert an Images-->
49        <img src="https://via.placeholder.com/150" alt="PlaceholderImage">
50
51    <!--1.6.3 commenting in HTML-->
52        <!--This is a comment and will not be displayed in the browser-->
53
54    </body>
55    </html>
```

Overall HTML views:

```html
File   Edit   Selection   View   Go   Run   Terminal   Help        ←  →                                    🔍 Search

<> lab1.html          <> index.html  ✕

C: > Users > User > Documents > <> index.html > ⬡ html
  1
  2    <!--1.4 Structure of an HTML Document-->
  3    <!DOCTYPE html>
  4    <html lang="en">
  5    <head>
  6        <meta charset="UTF-8">
  7        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8        <title>My First Web Page</title>
  9    </head>
 10    <body>
 11        <h1>Welcome to My First Web Page</h1>
 12
 13    <!--1.5 Basic HTML Tags-->
 14    <!--1.5.1 Headings-->
 15
 16        <h2>This is an H2 Heading</h2>
 17        <h3>This is an H3 Heading</h3>
 18        <h4>This is an H4 Heading</h4>
 19
 20    <!--1.5.2 Paragraph and Text Formatting-->
 21
 22        <p>This is a paragraph of text.</p>
 23        <p>This text is <strong>bold</strong> and this is <em>italic</em>.</p>
 24        <p>Here is a line break:<br>This text is on a new line.</p>
 25
 26    <!--1.5.3 List ordered and unordered-->
 27
 28        <h2>My Favorite Fruits</h2>
 29        <ol>
 30            <li>Apples</li>
 31            <li>Bananas</li>
 32            <li>Cherries</li>
 33        </ol>
 34
 35        <h2> Things to DO</h2>
 36        <ul>
 37            <li>Study HTML</li>
```

```html
 38            <li>Practice Coding</li>
 39            <li>Build a website</li>
 40        </ul>
 41
 42    <!--1.6 Links and Images-->
 43    <!--1.6.1 add a hyperlink-->
 44
 45        <p>Visit <a href="https://www.example.com" target="_blank">
 46        Example.com</a>for more information.</p>
 47
 48    <!--1.6.2 Insert an Images-->
 49        <img src="https://via.placeholder.com/150" alt="PlaceholderImage">
 50
 51    <!--1.6.3 commenting in HTML-->
 52        <!--This is a comment and will not be displayed in the browser-->
 53
 54    </body>
 55    </html>
```
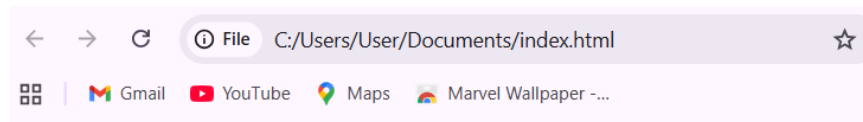
Output:

Welcome to My First Web Page

This is an H2 Heading

This is an H3 Heading

This is an H4 Heading

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.

PlaceholderImage

4.

1.7 Lab Exercise 1

In this exercise, you will create a simple personal webpage using basic HTML elements. This task will help you understand the fundamental structure of an HTML document, including headings, paragraphs, lists, images, and hyperlinks.
You will learn to organize content effectively while exploring essential HTML tags. This exercise aims to strengthen your understanding of the structure of a webpage and ensure that you can build a basic yet well-structured personal webpage.

1.7.1 Designing Simple Personal Webpage

Instruction
1. Create a simple webpage about yourself with
- A title in the browser tab
- A heading introducing your name.
- A short paragraph about your hobbies with some text in bold and italic
- An ordered list of 3-5 favorite movies or books.
- An unordered list of your top 3 favorite hobbies.
- A link to a relevant website (for example, a hobby-related page).
- An image of something related to your hobbies.
- 2. Use comments to explain each section of your code.

```
<> lab1.html  ●        <> index.html

C: > Users > User > Documents > lab1 RBA WEB > lab1 > <> lab1.html > 🔷 html > 🔷 body > 🔷 p
  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>My Simple Personal Page - Nursyaheera</title>
  7   </head>
  8   <body>
  9
 10       <h1>Hello, I'm Nursyaheera!</h1>
 11       <img src="my_bike.jpg" alt="My Motorcycle" width="350">
 12
 13         <hr>
 14
 15         <h2>About My Hobbies</h2>
 16         <p>
 17         My main passion is riding motorcycles. There's nothing quite like the feeling of
 18         the wind and the open road.
 19         I enjoy taking long scenic routes on the weekends, exploring new areas, and
 20         the satisfaction of keeping my bike running perfectly.
 21         </p>
 22
 23         <h2>Favorite Motorcycle Media</h2>
 24         <ol>
 25             <li>WorldSBK (Race Videos)</li>
 26             <li>Red Bull Bike (Youtube)</li>
 27             <li>MotoGP World Championship (Website)</li>
 28             <li>On Any Sunday (Documentary)</li>
 29         </ol>
 30
 31         <h2>My Top 3 Hobbies</h2>
 32         <ul>
 33             <li>Weekend Road Trips </li>
 34             <li>Motorcycle Maintenance/Tinkering </li>
 35             <li>Riding with friends</li>
 36         </ul>
 37
 38         <hr>
 39
 40         <h2>Hobby Spotlight</h2>
 41         <img src="my_bike2.jpg" alt="My Motorcycle" width="350">
 42         <br>
 43         <h4>_A perfect day out on the open road._</h4>
 44
 45         <hr>
 46
 47         <h2>Connect & Learn More</h2>
 48         <p>
 49             For some adrenaline-pumping racing, check out my favorite motorsport:
 50         <a href="https://www.motogp.com/" target="_blank">Official MotoGP Website</a>
 51         </p>
 52
 53         <hr>
 54
 55   </body>
 56   </html>
```

Ouput:

Hello, I'm Nursyaheera!

About My Hobbies

My main passion is riding motorcycles. There's nothing quite like the feeling of the wind and the open road. I enjoy taking long scenic routes on the weekends, exploring new areas, and the satisfaction of keeping my bike running perfectly.
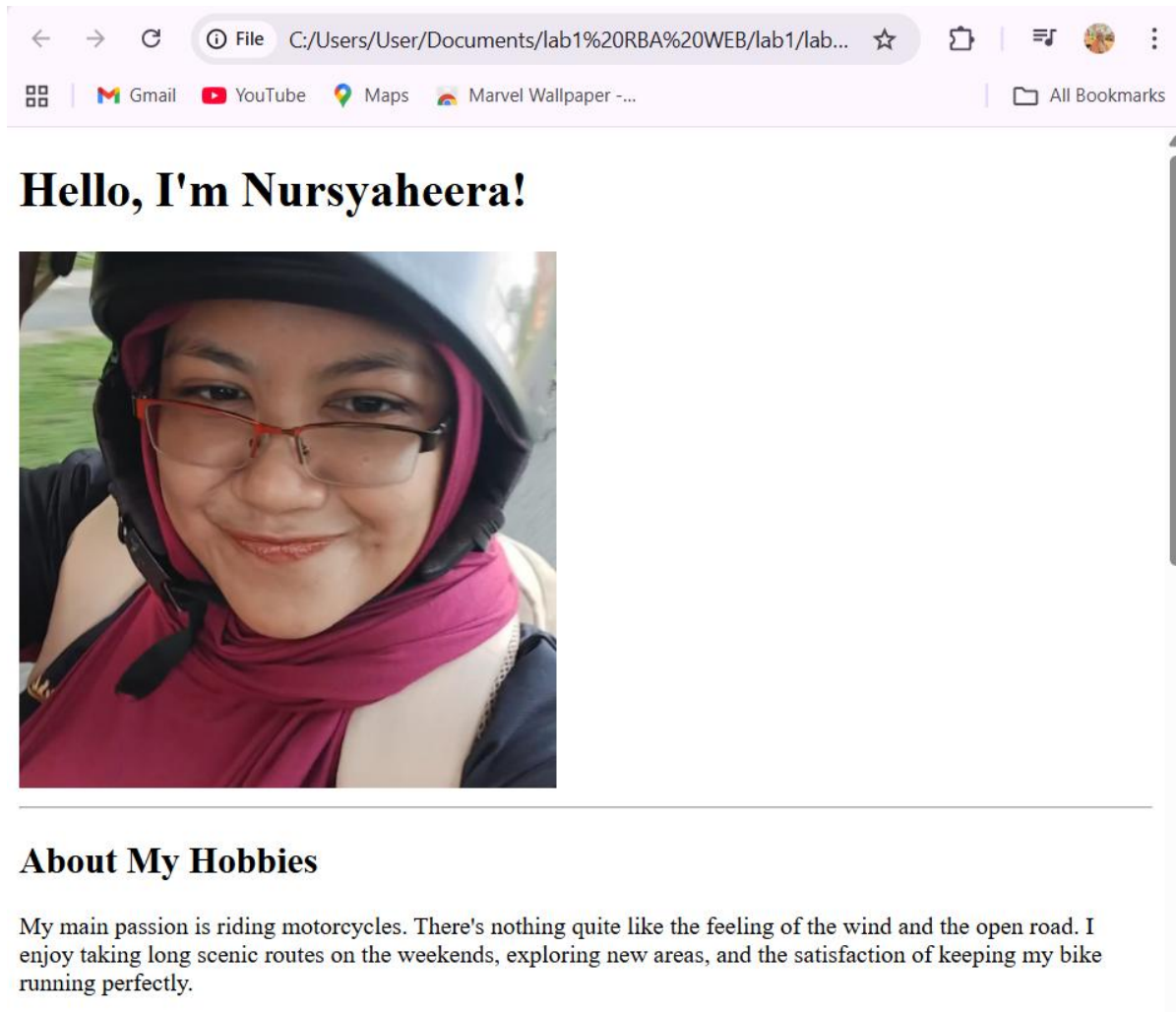
Favorite Motorcycle Media

1. WorldSBK (Race Videos)
2. Red Bull Bike (Youtube)
3. MotoGP World Championship (Website)
4. On Any Sunday (Documentary)

My Top 3 Hobbies

- Weekend Road Trips
- Motorcycle Maintenance/Tinkering
- Riding with friends

Hobby Spotlight

A perfect day out on the open road.

Connect & Learn More

For some adrenaline-pumping racing, check out my favorite motorsport: Official MotoGP Website