

Information Technology Department - State Polytechnic of Malang

Jobsheet-1: Web Server Installation and Basic HTML

Course: Web Design and Programming

Web Design and Programming Teaching Team

August 2024

Link GitHub: https://github.com/khoirul2003/KhoirulDasproWeb.git

Topic

- Introduction to Basic Concepts of the Internet and Web
- Introduction to HTML Fundamentals

Objectives

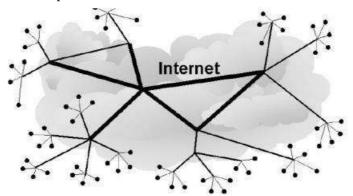
Students are expected to:

- 1. Understand the basic concepts of the Internet and the web
- 2. Install Laragon as web server
- 3. Be able to create static websites using HTML

Introduction

What is the Internet?

- A large network of computers.
- Network of networks
- Operates based on the TCP/IP protocol



Picture 1. Internet Network

What are the services provided by the Internet?

- World Wide Web (WWW): operates with the HTTP protocol
- E-mail: operates with *Post Office Protocol* (POP), *Simple Mail Transfer Protocol* (SMTP), *Internet Message Access Protocol* (IMAP)
- Chat: *Internet Relay Chat* (IRC)
- File Transfer: File Transfer Protocol (FTP)
- Remote Access: telnet, Shell Secure (SSH)
- VoIP (Voice over Internet Protocol)
- etc

Website and Web Applications

• Website (WWW)

A website is a collection of interlinked web pages that can be accessed through a homepage using a browser

For example, when accessing the website at www.polinema.ac.id, the homepage will appear as follows.



Picture 2. Homepage

Meanwhile, a web page is a part of the homepage that appears as a menu or link where, when clicked, will open a new page with information different from the homepage.

• Static Web Statis vs Dynamic Web

Static Web is a website where users cannot directly change the content of the web using a browser. The interaction between the user and the server is limited to processing links. These web pages do not have a database. The data and information on a static website do not change unless its syntax is altered. The web document sent to the client will be the same as what is on the web server.

Dynamic Web is a website where the interaction between the user and the server is very complex. A person can change the content of certain pages using a browser. Requests from users can be processed by the server and then displayed with different contents according to its program flow. These web pages are connected to a database, so a dynamic website will have different information and data depending on the input provided by the client. The document received by the client will be different from the document on the server.

How does a website work?

- 1. When user enters the URL in the browser https://www.google.com
- 2. The browser will translate the URL into an IP address and connect to the server via TCP on port 80 (HTTP service).

- In this case, we use the 'ping' command in CMD as an example.

```
C:\Users\zawar>ping google.com

Pinging google.com [142.251.12.100] with 32 bytes of data:
Reply from 142.251.12.100: bytes=32 time=37ms TTL=108
Reply from 142.251.12.100: bytes=32 time=37ms TTL=108
Reply from 142.251.12.100: bytes=32 time=37ms TTL=108
Reply from 142.251.12.100: bytes=32 time=36ms TTL=108
Ping statistics for 142.251.12.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 36ms, Maximum = 37ms, Average = 36ms

C:\Users\zawar>
```

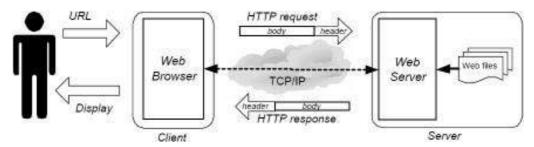
- 3. Through the established connection, the browser sends a GET request (HTTP request)
 - GET/HTTP/1.1

4. The server responds with an HTTP response (including the header and the requested file in the body). The MIME type is also included to inform the browser about the file type (HTML, text, image, etc.)

```
Content-type: text/html
<html>
<head><title> Google </title></head>
<body>Welcome to google <img src='logo.gif'></body>
</html>
```

Picture 3. MIME Type

- 5. Files within the webpage, such as images, are not sent with the main file, so the browser must make additional requests to retrieve all the files on the webpage..
 - GET /logo.gif HTTP/1.0
- 6. The browser will render the content to be displayed to the user in the browser..
- 7. HTTP connections do not remain continuous; once a file is downloaded, the connection is terminated.

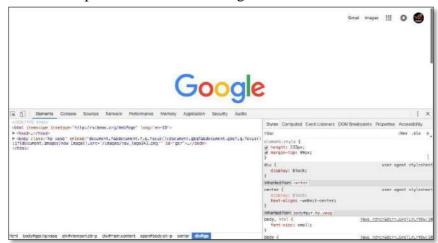


Picture 4. HTTP Request and Response

Hypertext Markup Language (HTML)

HyperText Markup Language (HTML) is a language used to create web pages, where formatting is done using simple hypertext written in ASCII format to produce an integrated visual display. HTML is an internet standard defined and regulated by the World Wide Web Consortium (W3C). HTML was created through a collaboration between Tim Berners-Lee and Robert Cailliau while they were working at CERN in 1989 (CERN is a high-energy physics research organization in Geneva).

HTML can be read on various platforms and is a flexible programming language that can be combined with other programming languages such as PHP, ASP, JSP, and JavaScript. Certain tags in HTML documents define how text is formatted, and there are also other tags that specify how to respond to user actions. For example, open the page www.google.com, right-click in the browser (Chrome), and select "inspect," which will display the browser's developer tools as shown in Figure 5.



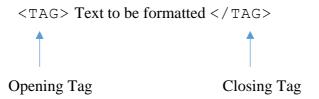
Picture 5. Inspect Element

In the first line, there is the text <!DOCTYPE HTML>, which indicates that the document you are viewing is an HTML document. On the second line, there is also the <HTML> tag, which further signifies that the code written within it is HTML code.

Practical Section 1. Laragon Installation

Steps	Description	
1	Download Laragon that matches your operating system from the link https://laragon.org/download/ .	
2	Install the Laragon that you downloaded in step 1.	
3	Open your browser, type localhost, and run it. Record the results (question No. 1). Include a screenshot of the display and provide an explanation. Please provide your answer below. Laragon Appendix 14 spread (question) 1 s	
4	After completing the Laragon installation, proceed to Practical Section 2: Starting HTML.	

HTML is the standard format used to create web page documents. An HTML document has paired syntax called TAGs that are used to apply the desired effects. Generally, the format of a TAG is as follows:



Basic Structure of an HTML Page

Every HTML document must start with the <html> tag and end with its complement, the </html> tag. An HTML document also includes three pairs of tags:

- <head> and </head>: Used to declare information about the HTML document.
- <title> and </title>: Used to add the title in the browser's title bar.
- <body> and </body>: Used to enclose all the text on the HTML page.

In HTML5, the structure is more concise, as shown below:

Practical Section 2: Starting HTML

Steps	Description	
1	Open the Laragon folder in the directory where you installed Laragon. Navigate to the direct C:\laragon\www, and then create a new folder named week1.	
2	Next, open your text editor, create a new file named hello.html, and save it in the week1 directory that you just created.	
	<pre>hello.html x 1</pre>	
3	Open your browser and type the following address: localhost/week1/hello.html.	
4	Observe what appears in the browser.	
5	Record your observations (question No. 2) and write your answer below. Helio World! Welcome to my first HTML page.	
6	Remove the tag from the code, observe the difference, and describe below what the function of the tag is. (question No. 3) Write your answer below. Compared to Start HTML page. Hello World! Welcome to Start HTML page.	

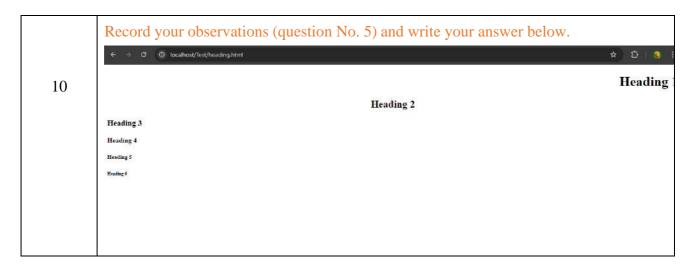
Practical Section 3: Text Formatting

HTML provides a variety of elements that can be used for text formatting.

Heading

A heading is one of the essential elements in an HTML document. A heading is defined using the $\langle hn \rangle$ tag and is closed with the $\langle hn \rangle$ tag, where n represents the type, with values ranging from 1 to 6.

Steps	Description	
1	Create a file named heading.html and save it in the week1 folder that you created in Practical Section 2.	
2	Type the following code into heading.html	
	<pre>heading.html * // html> // html // ht</pre>	
3	Open your browser and type the following address: localhost/week1/heading.html.	
4	Observe what appears in the browser.	
5	Record your observations (question No. 4) and write your answer below. ← → C o localhost/Test/heading.html Heading 1 Heading 2 Heading 3 Heading 4 Heading 5 Hoading 6	
6	Add the align attribute within the heading tag as shown below and save the file as headingAlign.html.	
7	<html> <body> <h1 align="right">Heading 1</h1> <h2 align="left">Heading 2</h2> <h3 align="center">Heading 3</h3> <h4>Heading 4</h4> <h5>Heading 5</h5> <h6>Heading 6</h6> </body> </html>	
8	Open your browser and type the following address: localhost/week1/headingAlign.html.	
9	Observe what appears in the browser.	



Paragraph

Like regular text, an HTML document can consist of a collection of paragraphs. In the context of HTML, a paragraph is represented by the tag. The tag is actually a paired tag, although in practice, the closing tag is often omitted.

Steps	Description
1	Buat sebuah file bernama paragraf.html dan simpan file tersebut di dalam folder week1 yang telah dibuat pada Praktikum 2.
2	Ketikkan kode di bawah ini dalam paragraf.html
3	html <html lang="en"></html>
4	Open your browser and type the following address: localhost/week1/paragraf.html.
5	Observe what appears in the browser.
6	Record your observations (question No. 6) and write your answer below.
7	To adjust the paragraph alignment, use the align attribute within the paragraph tag.
8	Add the align attribute in the paragraph tag as shown below and save the file as paragrafAlign.html.

```
<!DOCTYPE html>
     <html lang="en">
       <head>
        <title>
          Manage Paragraph
        </title>
       </head>
       <body>
          9
          First Paragraph
          This is the second paragraph
          And this is the third paragraph
       </body>
     </html>
```

10	Open your browser and type the following address: localhost/week1/paragrafAlign.html.
11	Observe what appears in the browser.
12	Record your observations (question No. 7) and write your answer below. ** ** ** ** ** ** ** ** ** ** ** ** **

Font

HTML provides several elements that can be used to manage fonts, such as **bold**, *italic*, <u>underline</u>, and many more. Additionally, this section will explain how to print tags. As you may know, the tag in a document is automatically interpreted as a paragraph. However, to display the character on the screen, we need to use entity names.

For example, the < character is represented by the entity name <, and the > character is represented by >.

Practical Section 4 : Font

Steps	Description	
1	Create a file named font.html and save it in the week1 folder that you created in Practical Section 2.	
2	Type the following code into font.html:	
3	<pre>font.html x 1</pre>	
4	Open your browser and type the following address: localhost/week1/font.html.	
5	Observe what appears in the browser.	
6	Record your c Menggunakan tag Menggunakan tag Menggunakan tag <i> Menggunakan tag Menggunakan tag <strike></strike></i>	

Special Characters

In HTML, we can also display special characters by using entity names. The table below shows some

types of special characters that can be used along with their entity names.

Character	Description	Special Characters
¢	Cent	¢
£	Pound	£
¥	Yen	¥
€	Euro	€
©	Copyright	©
®	Registered	®
TM	Trademark	™

Practical Section 5: Special Characters



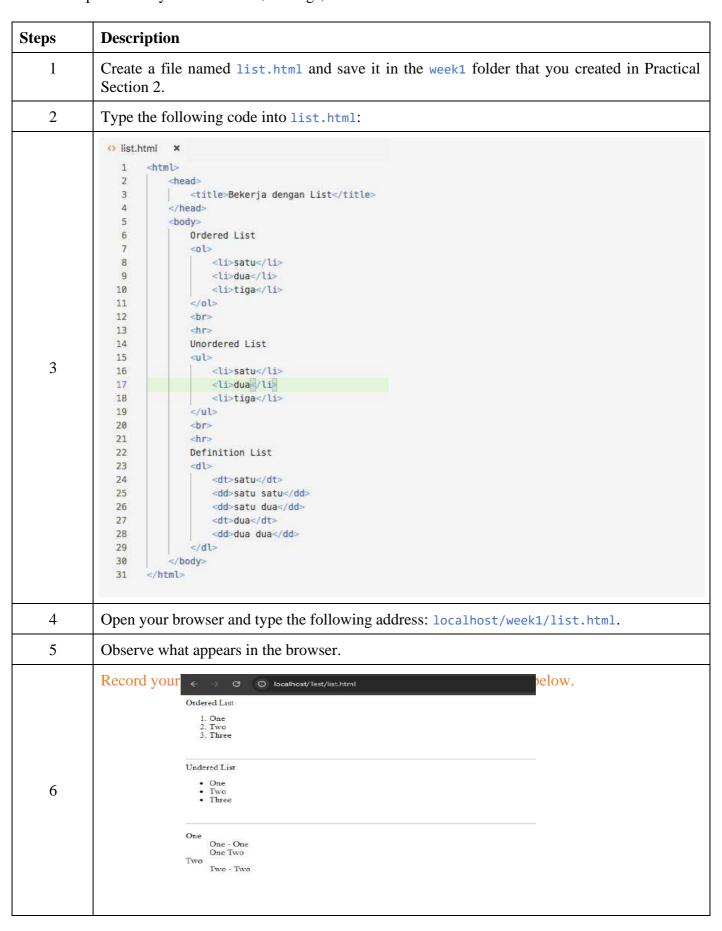
Practical Section 6: Horizontal Line

In HTML, a horizontal line is represented by the <hr> tag. Although most browsers render this element with slightly different visualizations, it essentially represents a horizontal line.

Steps	Description	
1	Buat sebuah file bernama garishorizontal.html dan simpan file tersebut di dalam folder week1 yang telah dibuat pada Praktikum 2.	
2	Ketikkan kode di bawah ini dalam garishorizontal.html	
3	<pre></pre> <pre><pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre><pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	
4	Open your browser and type the following address: localhost/week1/garishorizontal.html.	
5	Observe what appears in the browser.	
6	Ecrem işsum, dolor sit amet consectetur adiptaicing elir. Maxime optio pariatur ascessitatibus voluptatum qui unde ullam cupiditate us quidems quasi Lorem işsum, dolor sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eo se el elegendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eo se el eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eo se el eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, in terum. Lorem işsum dolor, sit amet consectetur adiptaicing elir. Maxime optio pariatur accessitatibus voluptatum qui unde ullam cupiditate quasi Lorem işsum dolor, sit amet consectetur adiptaicing elir. Maxime optio pariatur accessitatibus voluptatum qui unde ullam cupiditate u quidem quasi Lorem işsum dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, ut rerum. Lorem işsum dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Ad velis sagietate voluptatem culpa eos vel eligendi cupiditate. Perferendis, ut rerum. Lorem işsum, dolor, sit amet consectetur adiptaicing elir. Maxime optio pariatur accessatatibus voluptatum qui unde ullum cupiditate ut quidem quasi Lorem işsum dolor, sit amet consectetur adiptaicing elir. Maxime optio pariatur accessatatibus voluptatum qui unde ullum cupidi	

Practical Section 7: Using List

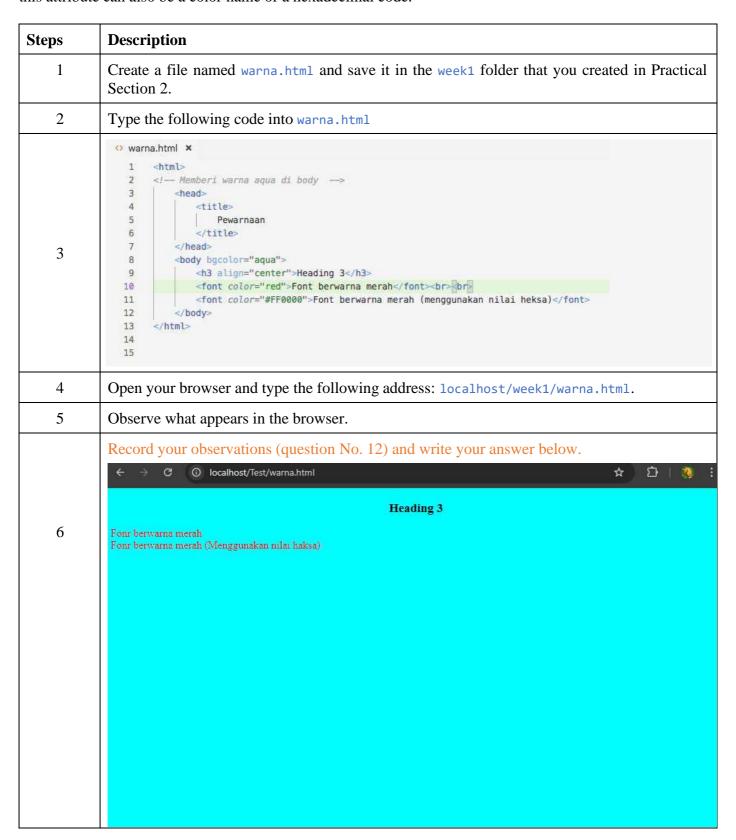
HTML supports lists in the form of ordered, unordered, and definition lists. For each of these types, there are list items represented by the and tags, which indicate the individual items within the list.



Practical Section 8: Coloring

To set a background color, HTML provides the bgcolor attribute in the <body> tag. This attribute can be filled with a color name (e.g., red) or a hexadecimal code (e.g., #FFFFFF).

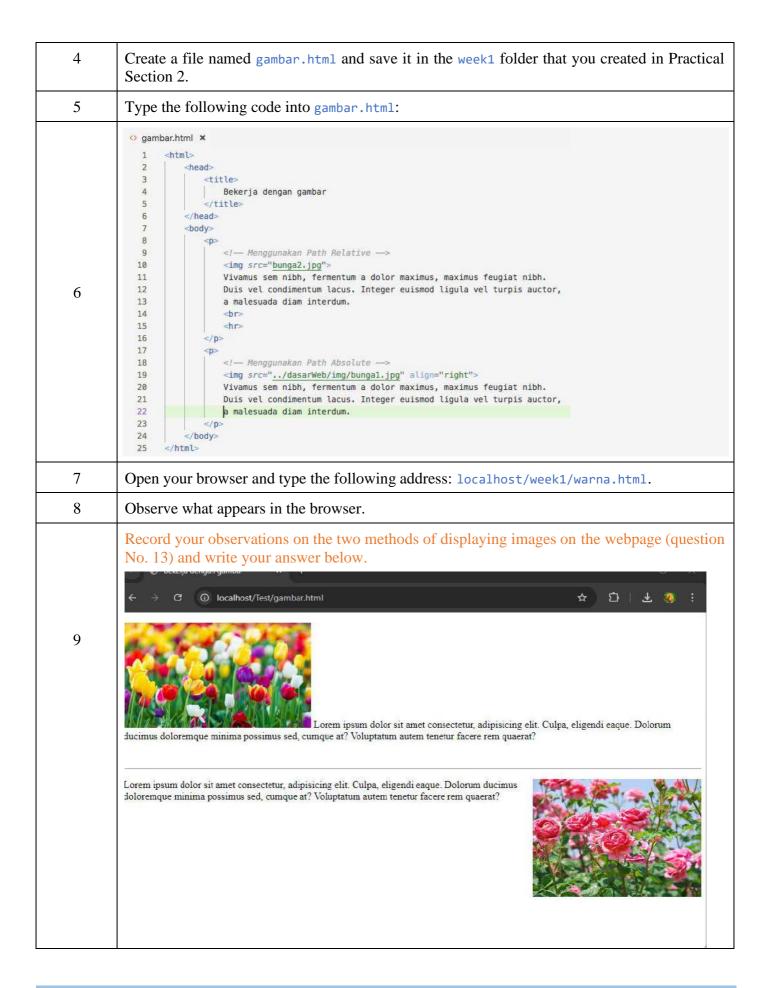
For certain other elements, the color attribute is available to apply coloring. Similar to bgcolor, the value of this attribute can also be a color name or a hexadecimal code.



Practical Section 9: Working with Images

An HTML document can contain graphics in addition to text.HTML offers the tag, which is supported by several attributes, for this purpose.

Steps	Description
1	Place an image in the week1 folder with any size and name the image bunga2. If the image is in JPG format, the name should be bunga2.jpg (the file can be in a format other than JPG).
2	Create a new folder inside the week1 folder and name it img.
3	Place a different image with any size in the img folder and name it bungal. If the file is in JPG format, the name should be bungal.jpg (the file can be in a format other than JPG).



Practical Section 10: Link

- A link in HTML is called a Hyperlink.
- A Hyperlink is an element, text, or an image that can be clicked to navigate to another document.

- The browser will highlight text or images identified as links with a color and/or underline to indicate that it is a hypertext link (hyperlink or link).
- The syntax for a link in HTML:

The <a> (Anchor) tag is used to create a link to another document by adding the href attribute, which defines the link's destination.

linked text

- The href attribute provides the link's destination address.
- The linked text is the text that will appear on the webpage containing the link, and when clicked, it will navigate to the address specified in the href attribute.
- Example: Click to go to Polinema

Types of Links

a) Relative Link

A local link that points to a location within the same website, specified by a URL (without https://www.).

b) Absolute Link

Used to create a link to a webpage on another website on the internet.

c) Link within the Same Document

This type of link is used for long documents that, when displayed in a web browser, require the user to scroll repeatedly. Navigation within the document can be simplified by creating links between sections, with each section being marked with a name. This allows a link to be placed elsewhere in the document to jump to that specific section.

Steps to name a section within a document:

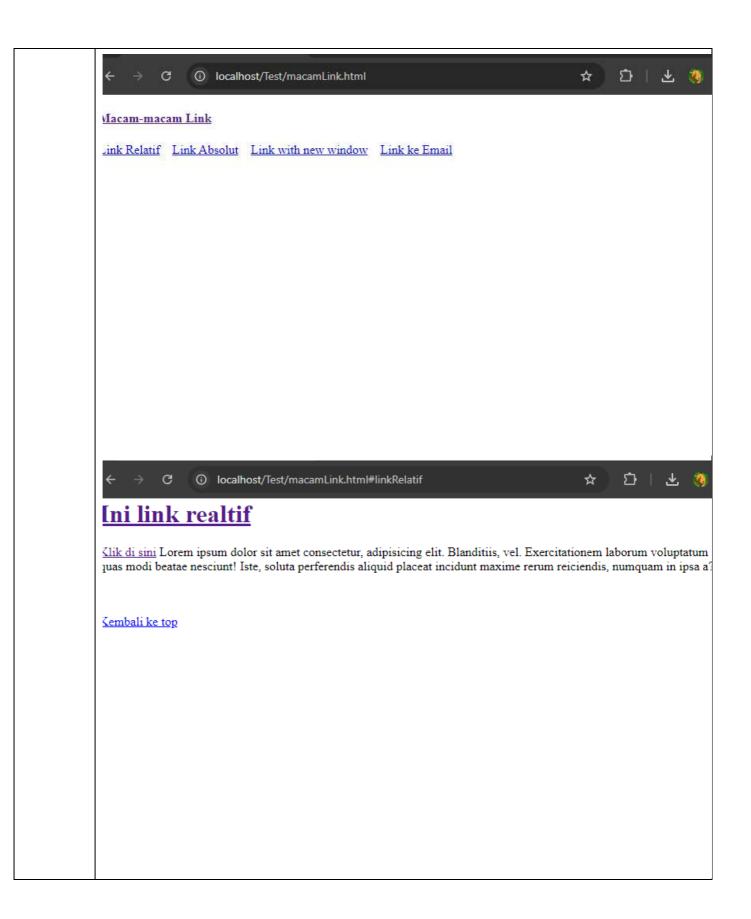
- Place the cursor at the line or text that will mark the beginning of the section.
- Insert the name of the section with: .
- Creating a link to the same document can be done similarly to absolute or relative links, but the document's name in the link is replaced with the section name, prefixed by #. Example:

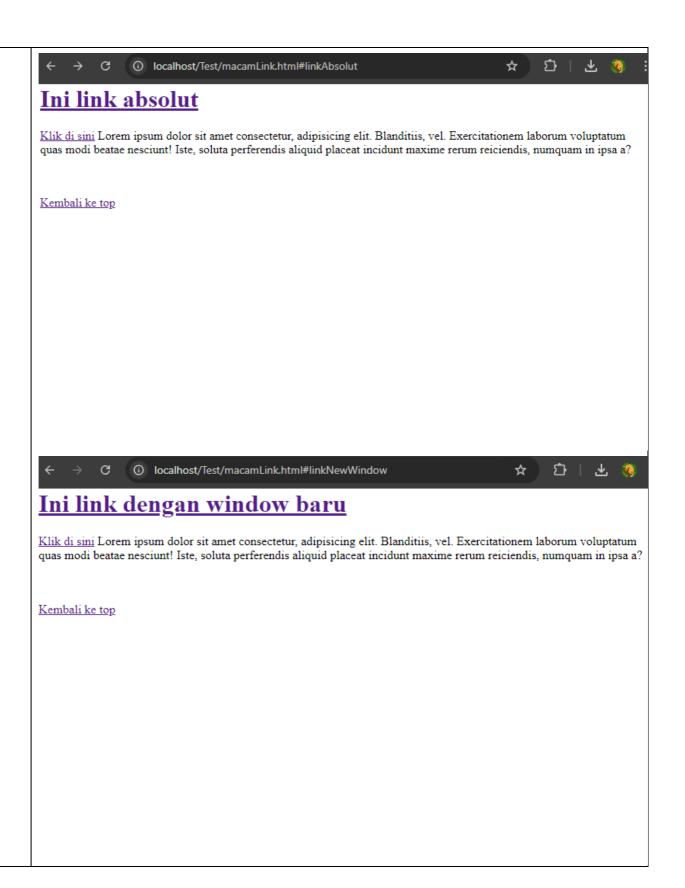
Section about link.

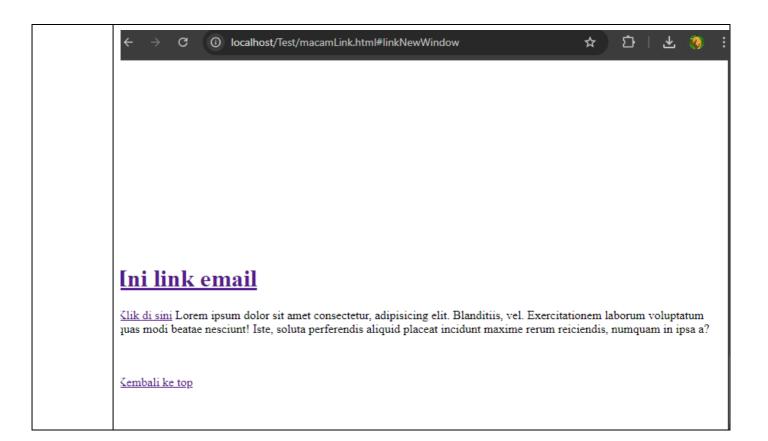
Practical Steps:

Steps	Description
1	Create a file named macamLink.html and save it in the week1 folder that you created in Practical Section 2.
2	Type the following code into macamLink.html:
3	chtml

```
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
                                      cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
                36
                37
                                       Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
                                      labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
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                                       cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
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                                       qui officia deserunt mollit anim id est laborum. brobrobrobro
                43
                                       drobrobrobrobro
                                       <a href="#TOP">Kemball Ke Menu</a>
                45
                46
                               </a>-br>-br
                              <a name
                48
                                  <h1>Ini adalah contoh Link Absolut</h1>
                49
                                      Klik <a href="http://www.google.com">di sini</a> untuk pencarian yang Anda inginkan.<br/>
br>
                51
                                       Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
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                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
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                                      cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
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                                      qui officia deserunt mollit anim id est laborum.
                                       Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
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                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
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                                      nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
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                                       cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
                                      qui officia deserunt mollit anim id est laborum. brobrobrobro
                61
                                       shrashrashrashrashr
                                      <a href="#TOP">Kembali Ke Menu</a>
                62
                64
                65
                              <br><br><br>>
                              <a name="Link with New Window">
                66
                                   <h1>Ini adalah contoh Link dengan Window Baru</h1>
                68
                                      69
                 70
                                       Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
                71
                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
                72
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                                      cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
                                       qui officia deserunt mollit anim id est laborum.
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                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
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                                       cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa
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                                       qui officia deserunt mollit anim id est laborum. dr dr br br br
                80
                                       <br
                                       82
                                   83
                              </a>
                              <a nai
                85
                                  <h1>Ini adalah contoh link ke email</h1>
                86
                                      Anda bisa menghubungi saya di <a href = "mailto:dyah.ayu@polinema.ac.id">email ini</a>
                87
                88
                                       untuk pertanyaan lebih lanjut. br>cbr>
                89
                                       Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut
                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
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                                       qui officia deserunt mollit anim id est laborum.
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                                       labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse
                96
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                                       cillum dolore eu fugiat nulla pariatur. Excepteur simt occaecat cupidatat non proident, sunt in culpa
                98
                                       qui officia deserunt mollit anim id est laborum.
                99
                                  101
                              <br/>br><br/>br
                              <a href="#TOP">Kembali Ke Atas</a>
               102
                            /body>
               103
4
             Open your browser and type the following address: localhost/week1/macamLink.html.
5
             Observe what appears in the browser and how each link functions.
             Record your observations (question No. 14) and write your answer below.
6
```







Practical Task Section 10: Links

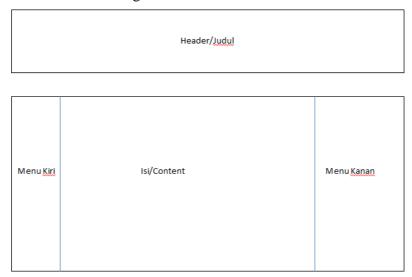
Create a webpage and name it tugasLink.html.

Display an image that contains a link to https://www.google.com

Practical Section 11: Table and Table Formatting

In a webpage, tables serve as a framework for organizing the content components, ensuring that the content is arranged neatly within the webpage.

Here is an example of a table structure design:



Picture 6. Example of a Table in a Web Page

Creating Table

Creating a table in HTML begins with the tag and ends with the tag.

- : This tag informs the browser that it is a table.
- : Table Row tag, used to create a row within the table.
- : Table Data tag, used to place the data that you want to include in the table. The can also be understood as a column.

The structure of a table is illustrated in Figure 7.



Figure 7. Table Structure

The syntax for creating a table is as follows:

```
 Body Content 
 Body Content
```

❖ Table Configuration

Here are the attributes that can be used for table and row configuration.

Attributes for Tabel

Attribute	Description
align	Used to align the table to the left, center, right, or justify it.
border	Used to set the thickness of the border lines between cells in the table.
width	Used to specify the width of the table; you can set the table width using a percentage (%).
cellspacing	Used to define the space (padding) between cells and between the cells and the border.
cellpadding	Defines the space (padding) between the content of the cell and the cell's border.
bgcolor	Specifies the background color for all cells in the table.
bordercolor	Used to set the color of the border lines.

• Attributes for Table Row

Attribute	Description
align	Used to align the table to the left, center, right, or justify it.
valign	Used for vertical alignment; valign can be set to values such as top (top of the page), center (middle of the page), bottom (bottom of the page), or baseline (standard).
bgcolor	Indicates the background color for the row.

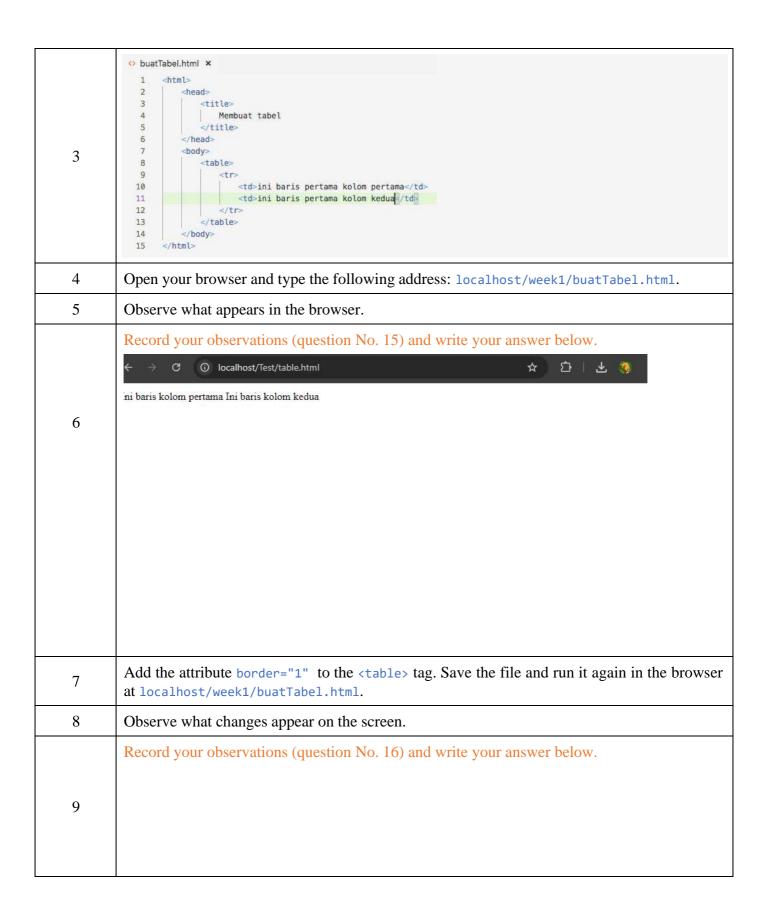
Merger Cell

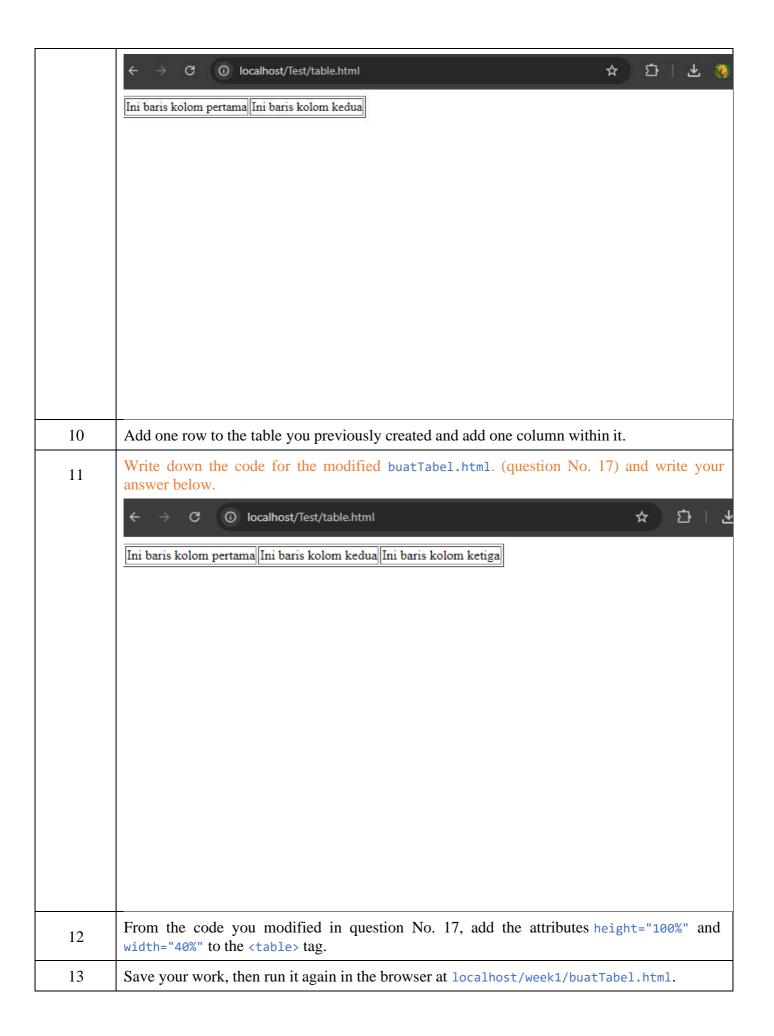
Table cell merging can be achieved using the following attributes:

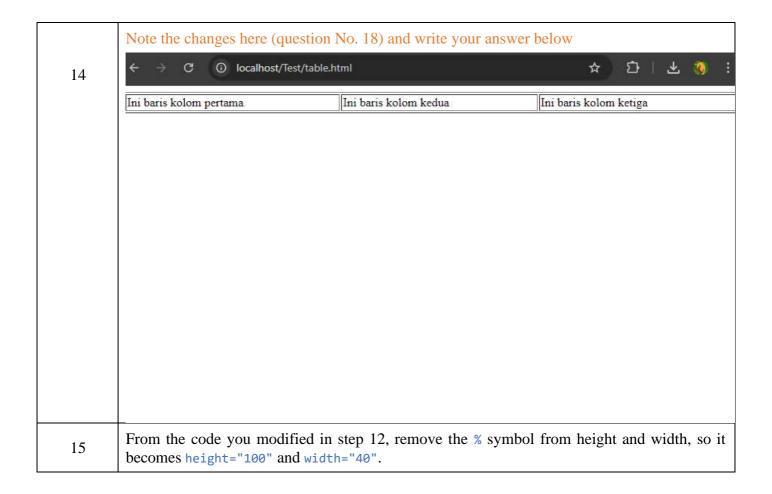
- Rowspan: Used to merge cells across multiple rows. For example, to merge three rows, you would set rowspan="3".
- Colspan: Used to merge cells across multiple columns. For example, to merge three columns, you would set colspan="3".

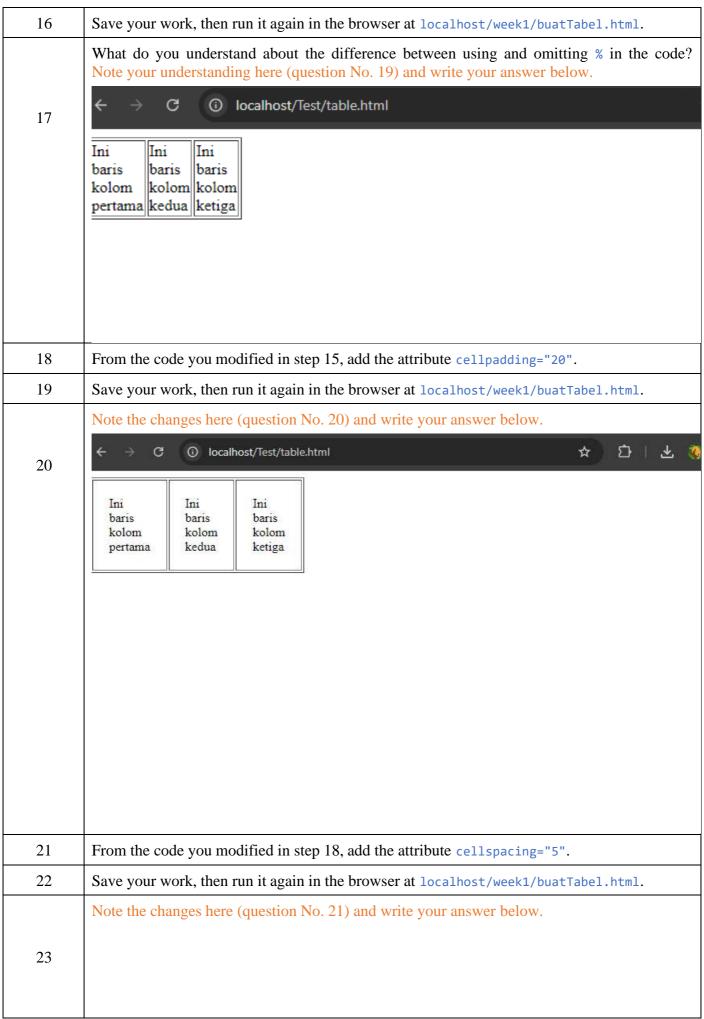
Practical Steps:

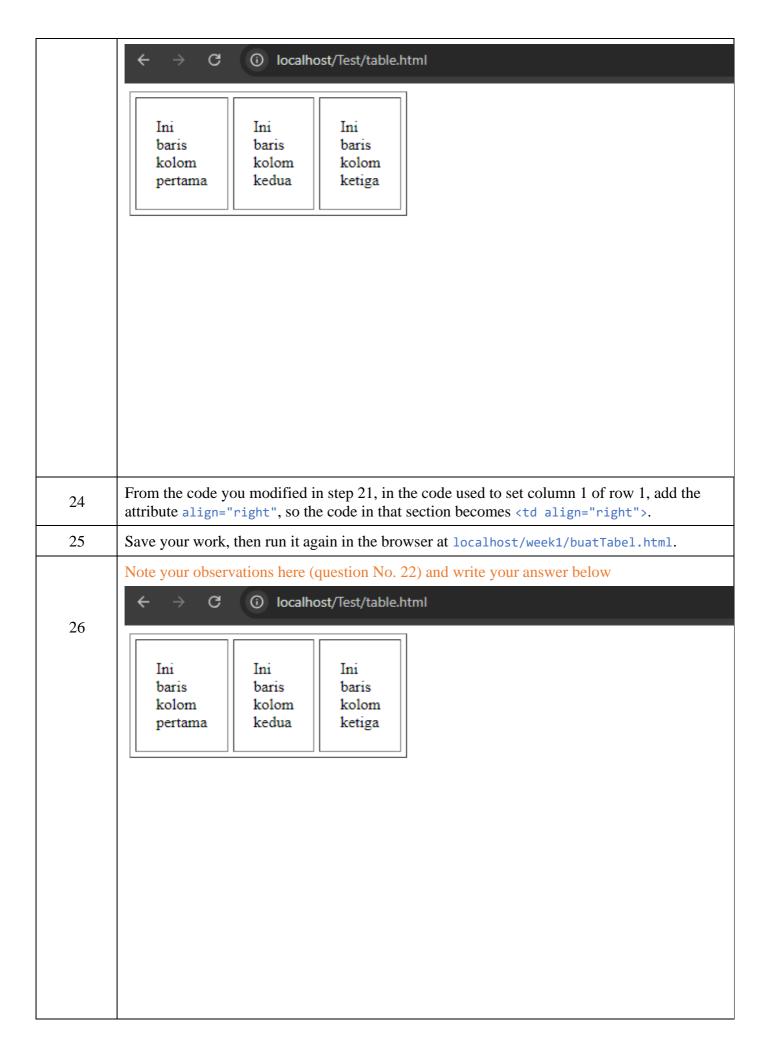
Steps	Description
1	Create a file named buatTabel.html and save it in the week1 folder that you created in Practical Section 2.
2	Type the following code into buatTabel.html



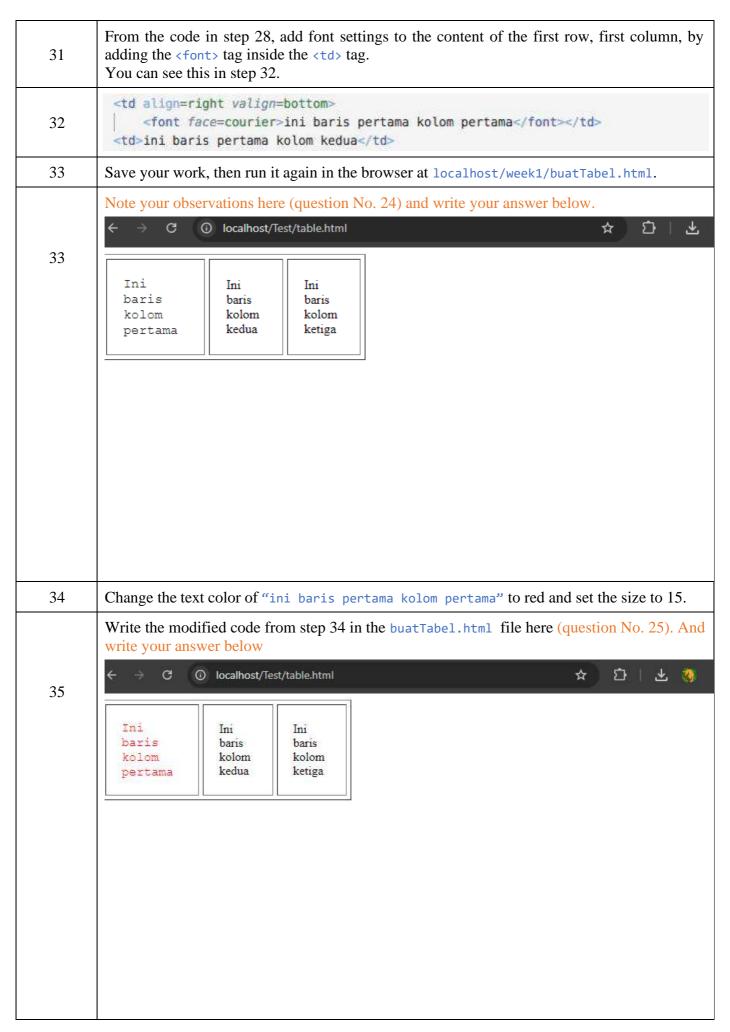




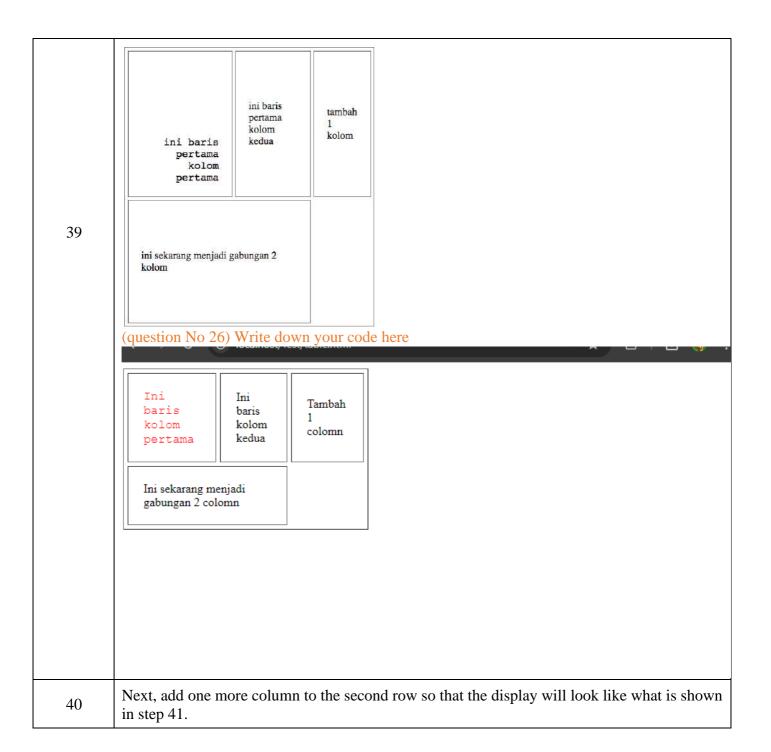


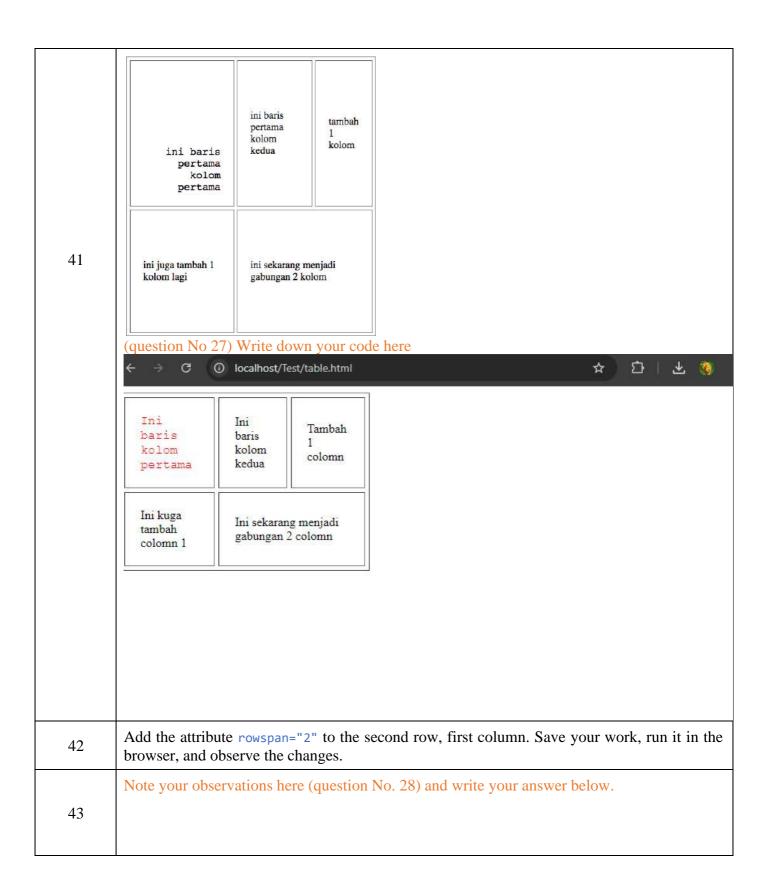


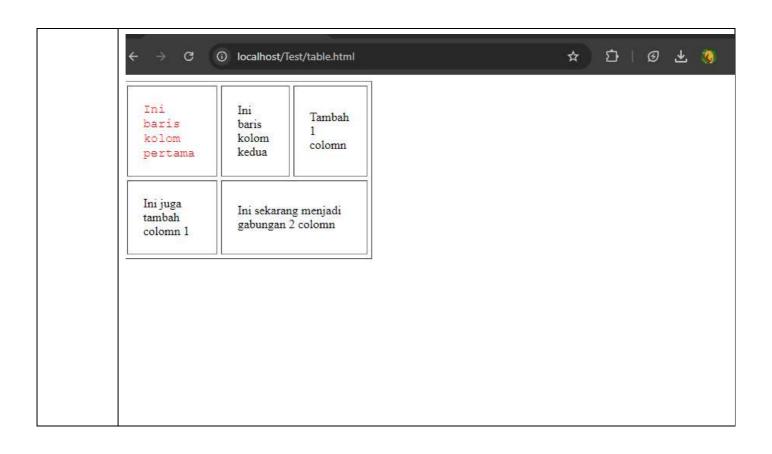
27	From the code you modified in step 24, add % to height and width, so it becomes height="100% and width="40%".
28	Next, in the code used to set column 1 of row 1, add the attribute valign="bottom", so the code in that section becomes .
29	Save your work, then run it again in the browser at localhost/week1/buatTabel.html.
	Note your observations here (question No. 23) and write your answer below.
30	← → C ① localhost/Test/table.html ☆ ఏ │ ᅶ
	Ini baris kolom pertama Ini baris kolom kedua Ini baris kolom ketiga

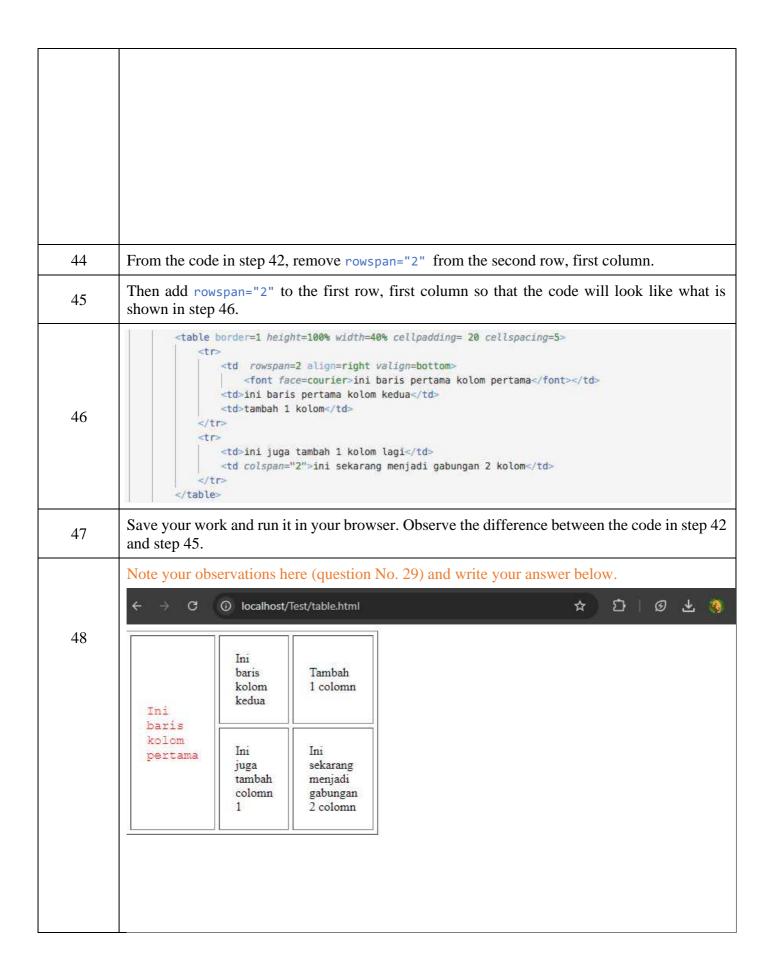


36	After completing step 35 in the buatTabel.html code, add the attribute colspan="2" to the second row, first column, so that the tag results in a code snippet similar to what is shown in step 37.
37	<pre></pre>
38	From the code you completed in step 36, add one more column to the first row, so that the display will look like what is shown in step 39.









forms, user data forms, and more. The process of data input from a form will be discussed in PHP, MySQL, and JavaScript materials. The tag used to create a form is the <form> tag, which can contain elements like <input>, <textarea>, <option>, and <select>.

The form has attributes such as action and method. The action attribute specifies the URL that will be executed and receives all the input from the form. If action is not specified, the form data will be sent to the same URL as the webpage itself, while the method attribute contains the method used by the form to submit the data (GET/POST).

- **GET**: Information is sent along with the URL.
- **POST**: Information is sent separately from the URL.

Syntax:

```
<form action="url" method="GET|POST">
    ..... form fields
</form>
```

INPUT Element

The <input> element is used to define the input that will be provided by the user. This element has attributes such as name, size, type, value, and checked.

- The name attribute defines the name of the input control within the form.
- The size attribute defines the size of the text within the input control.
- The type attribute defines the different types of input controls.
- The value attribute defines the initial value, reset, or submit value.
- The checked attribute defines the selected option for radio or checkbox types.

This element does not have a closing tag and must be placed within a <form> element.

Syntax:

```
<input name="name" type="text" value="Name of ....">
<input name="name_val" size="number" type="checkbox" value="1" checked>
```

Attributes type:

Туре	Description
button	<pre><input type="button"/>: Defines a clickable button (usually used with a JavaScript script).</pre>
checkbox	<pre><input type="checkbox"/>: Defines a checkbox.</pre>
color (HTML5)	<pre><input type="color"/>: Defines a color picker.</pre>
date (HTML5)	<pre><input type="date"/>: Defines a date picker (year, month, day with no time).</pre>
<pre>datetime-local (HTML5)</pre>	<pre><input type="datetime-local"/>: Defines a date and time picker (year, month, day, time with no timezone).</pre>
email (HTML5)	<pre><input type="email"/>: Defines an input area for an email address.</pre>
file	<pre><input type="file"/>: Defines an area for selecting a file with a "Browse" button (for file uploads).</pre>
hidden	<pre><input type="hidden"/>: Defines a hidden input field.</pre>
image	<pre><input type="image"/>: Defines an image as a button.</pre>
month (HTML5)	<pre><input type="month"/>: Defines a month and year picker (no timezone).</pre>
number (HTML5)	<pre><input type="number"/>: Defines an area for entering a number.</pre>
password	<pre><input type="password"/>: Defines an area for entering a password.</pre>
radio	<pre><input type="radio"/>: Defines a radio button.</pre>
range (HTML5)	<pre><input type="range"/>: Defines a range control (like a slider).</pre>
reset	<pre><input type="reset"/>: Defines a reset button.</pre>
search (HTML5)	<pre><input type="search"/>: Defines a text area for entering a search query.</pre>
submit	<pre><input type="submit"/>: Defines a submit button.</pre>
tel (HTML5)	<pre><input type="tel"/>: Defines a text area for entering a phone number.</pre>
text	<pre><input type="text"/>: Default. Defines a single-line text area.</pre>
time (HTML5)	<pre><input type="time"/>: Defines a time picker (no timezone).</pre>
url (HTML5)	<pre><input type="url"/>: Defines an area for entering a URL.</pre>
week	<pre><input type="week"/>: Defines a week and year picker (no timezone).</pre>

SELECT Element

The <select> attribute is used to define selectable options in a form control. This element has attributes such as name, size, and multiple (which allows multiple selections). This element must be placed within a <form> element.

Syntax:

```
<select name="name" size="number" multiple>
.....
</select>
```

OPTION Element

The <option> element defines the selectable options within a <select> menu. This element has attributes such as selected and value. The selected attribute indicates the default selected option, and the value attribute holds the value associated with the option element.

Syntax:

```
<select name="name" size="number">
  <option value="value-1">Text 1</option>
  <option value="value-2">Text 2</option>
  <option value="value-3">Text 3</option>
  </select>
```

TEXTAREA Element

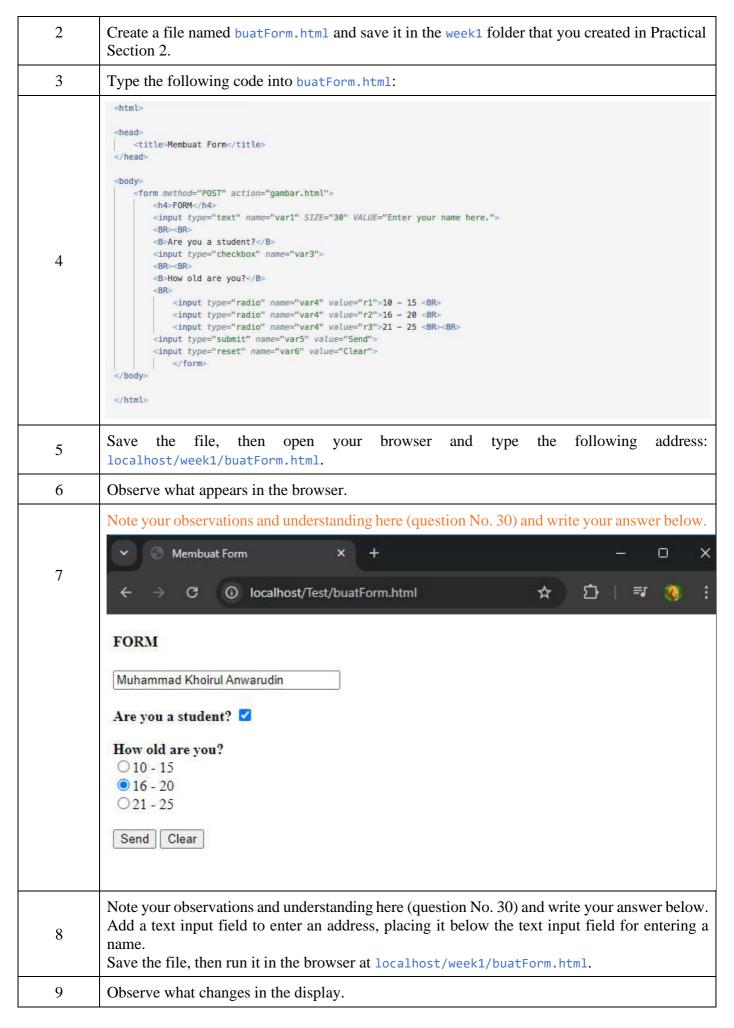
The <textarea> element functions as a form input control for entering multi-line text. This element has attributes such as name, cols, and rows. The name attribute defines the name of the input control for the <textarea> element, the cols attribute defines the number of visible columns in the textarea, and the rows attribute defines the number of visible rows in the textarea. This element must be placed within a <form> element.

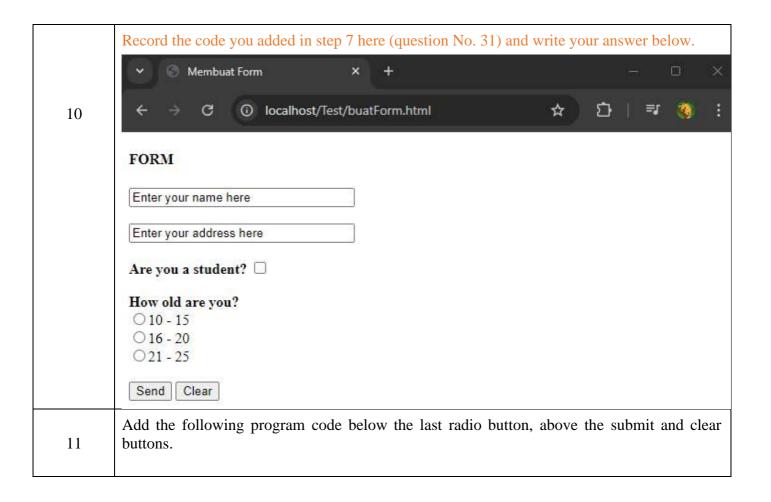
Syntax:

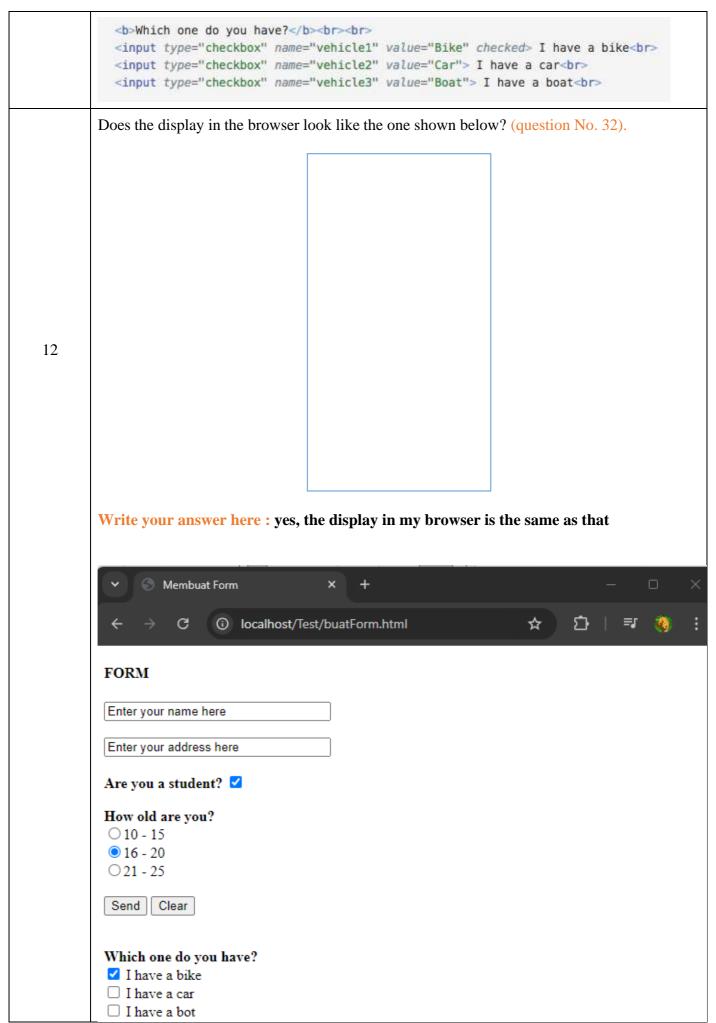
```
<textarea name="name" rows="number" cols="number">
..... text
</textarea>
```

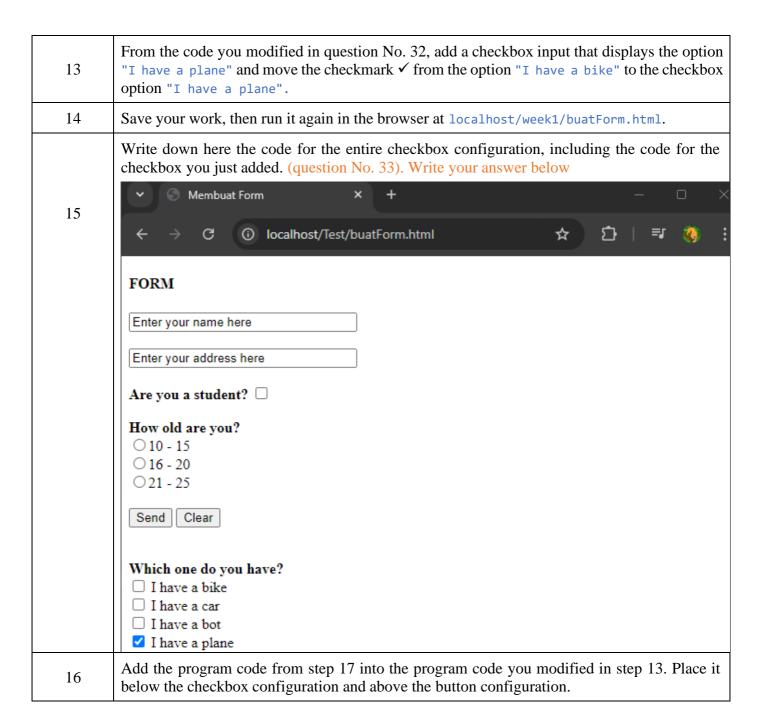
Practical Steps:

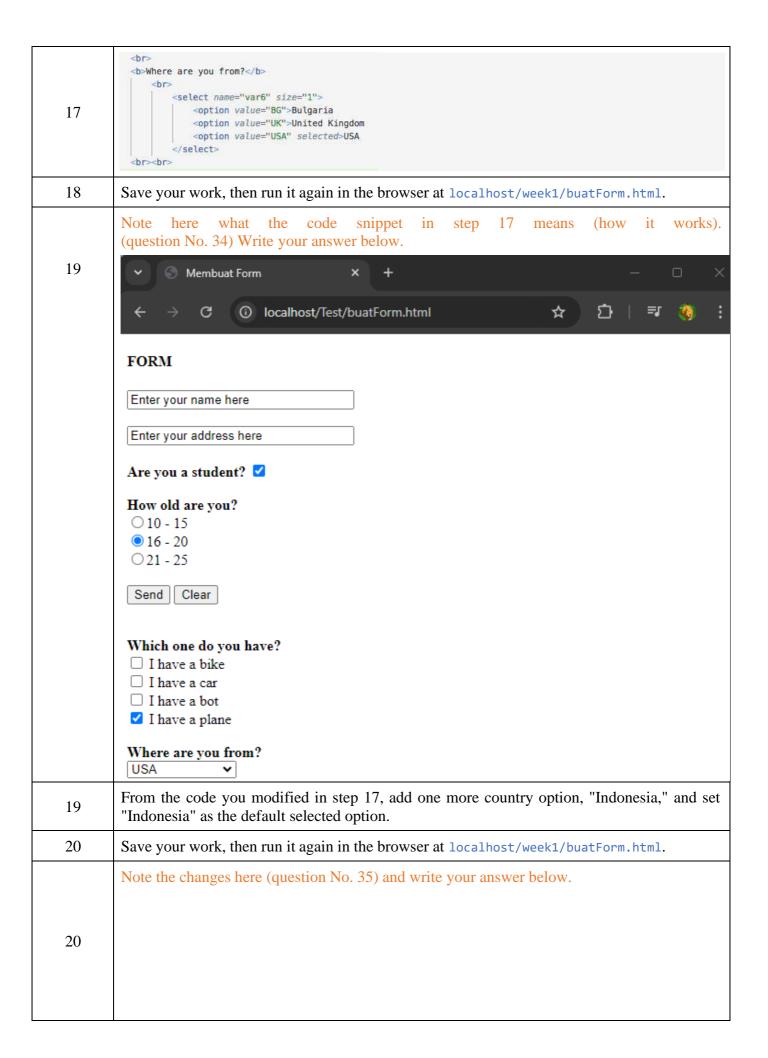
Steps	Description
	First, in this practical session, you will create a form with elements as shown in the picture:
1	
1	

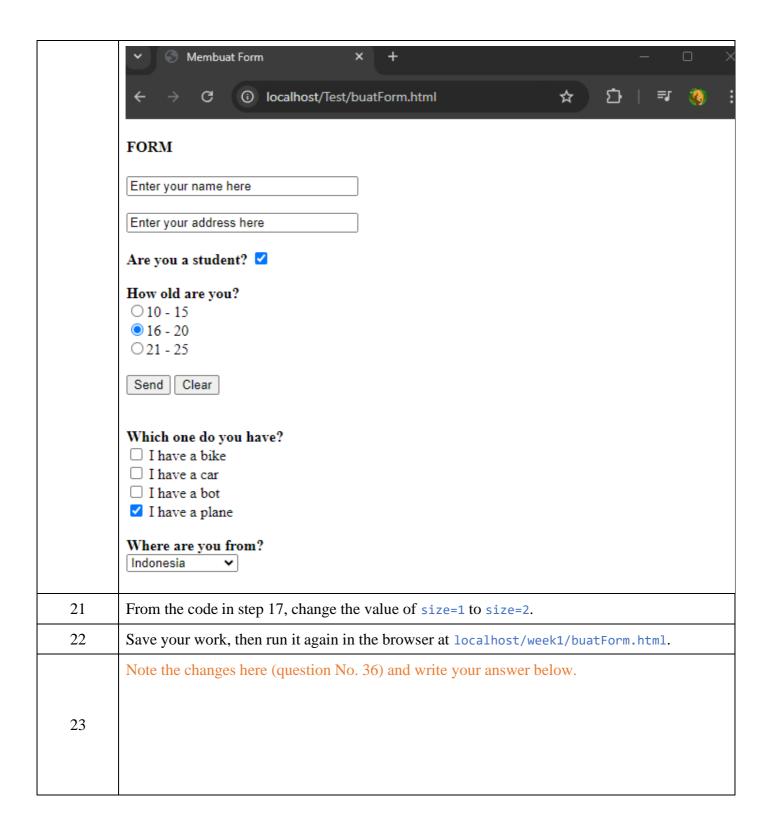


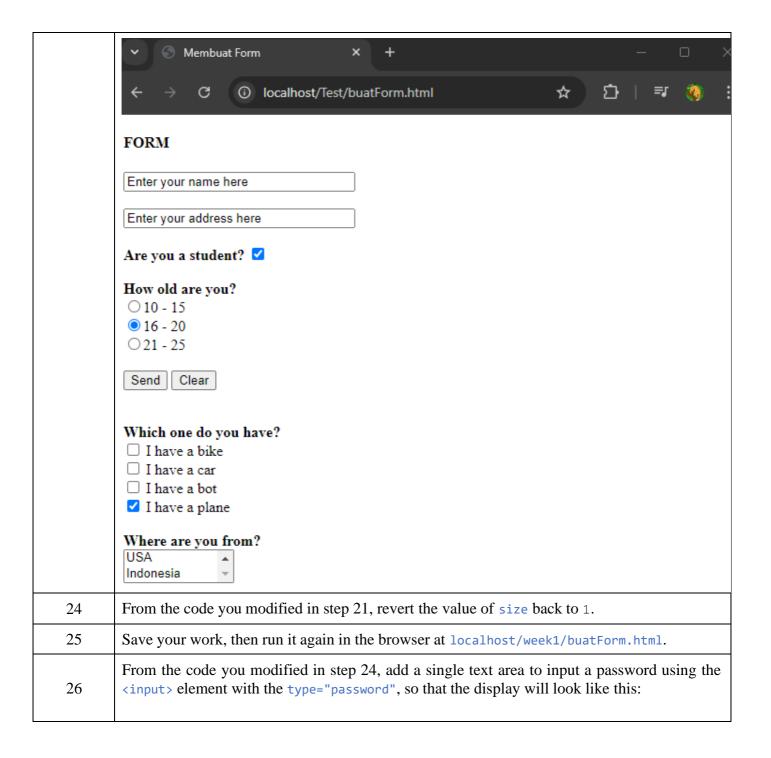


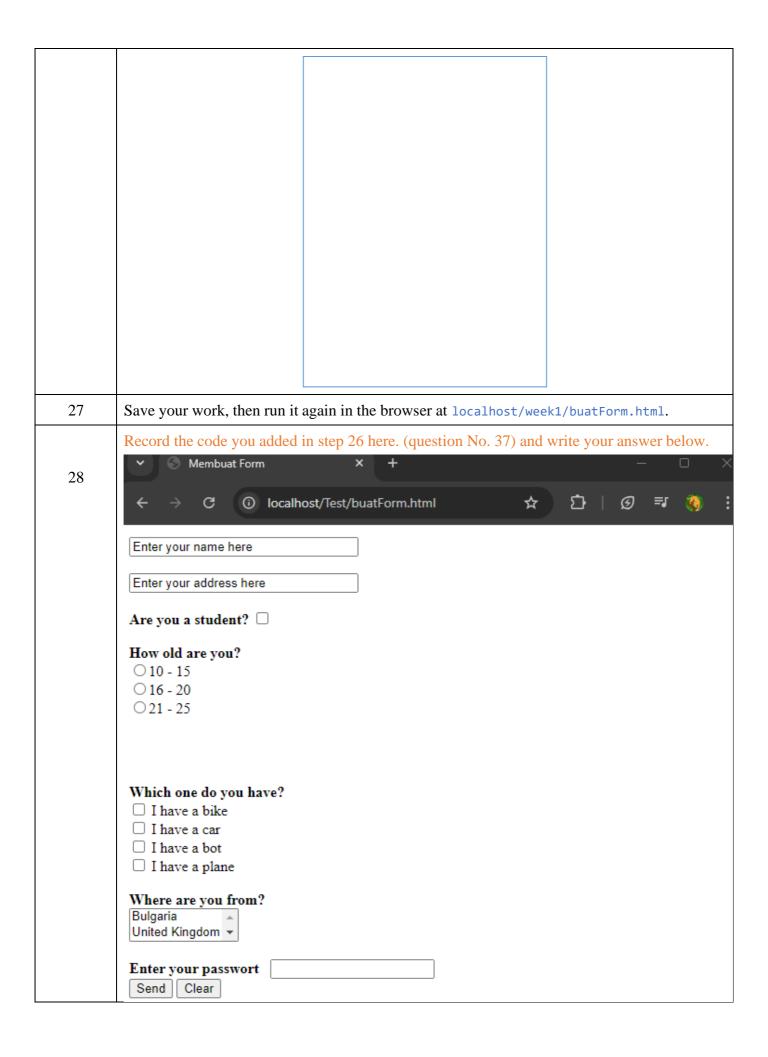






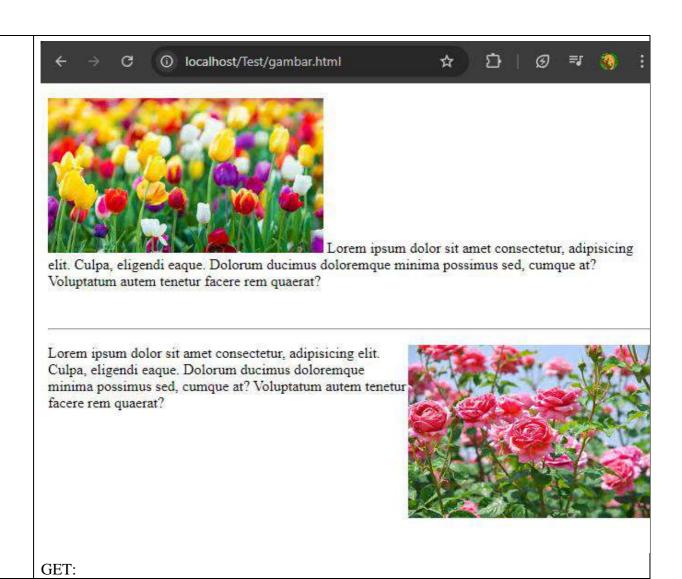


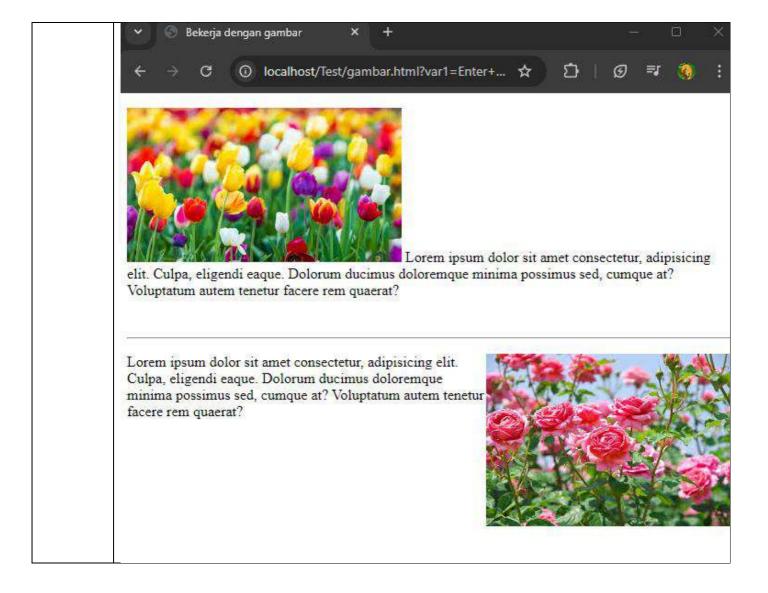




	From the code in step 28, add a text area for typing long comments using the <textarea> and </textarea> tags, so that the display will look like this:
29	

30	Save your work, then run it again in the browser at localhost/week1/buatForm.html.
31	Please record the code you added in step 29 here (question No. 37). Write your answer here 1
32	Notice that the <form> tag includes the attribute method="POST". Run the form again in the browser at localhost/week1/buatForm.html, fill out the form, and then click the "Send" button. Observe the URL in the address bar of the page you are directed to after clicking the "Send" button.</form>
33	Open the buatForm.html code again and change the method from POST to GET. Save the file, then run it again in the browser at localhost/week1/buatForm.html. Fill out the form and click the "Send" button. Observe the URL in the address bar of the page you are directed to after clicking the "Send" button. Compare and note the differences between the GET and POST methods based on what you observe.
34	Note your observations here (question No. 38) and write your answer below. POST:





References:

- 1. Jason Beaird, The Principles of Beautiful Web Design
- 2. Rian Ariona, Belajar HTML dan CSS (Tutorial Fundamental dalam mempelajari HTML dan CSS)
- 3. Adi Hadisaputra, HTML dan CSS Fundamental dari Akar menuju Daun
- 4. John Duckett, HTML and CSS: Design and Build Websites

Link Github: https://github.com/khoirul2003/KhoirulDasproWeb.git