Statement Purpose:

To familiarize the students with

- Links
- Tables
- Forms (Attributes, Elements, Types)
- Quotations
- Cascading Stylesheet (CSS) Basics, and inline styling

Activity Outcomes:

After this lab the students should be able to add links, tables, create forms, add quotations and inline CSS in web pages.

1) Introduction

HTML Links - Hyperlinks

HTML links are hyperlinks. You can click on a link and jump to another document. When you move the mouse over a link, the mouse arrow will turn into a little hand.

HTML Links - Syntax

The HTML <a> tag defines a hyperlink. It has the following syntax:

link text

The most important attribute of the <a> element is the href attribute, which indicates the link's destination. The *link text* is the part that will be visible to the reader. Clicking on the link text, will send the reader to the specified URL address.

Visit google.com!

By default, links will appear as follows in all browsers:

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- · An active link is underlined and red

HTML Links - The target Attribute

By default, the linked page will be displayed in the current browser window. To change this, you must specify another target for the link.

The target attribute specifies where to open the linked document.

The target attribute can have one of the following values:

- _self Default. Opens the document in the same window/tab as it was clicked
- blank Opens the document in a new window or tab
- parent Opens the document in the parent frame
- _top Opens the document in the full body of the window

Example

Use target=" blank" to open the linked document in a new browser window or tab:

```
<a href="https://www.google.com/" target="_blank">Visit Google!</a>
```

Absolute URLs vs. Relative URLs

Both examples above are using an **absolute URL** (a full web address) in the **href** attribute. A local link (a link to a page within the same website) is specified with a **relative URL** (without the "https://www" part):

Example

```
<h2>Absolute URLs</h2><a href="https://www.w3.org/">W3C</a><a href="https://www.google.com/">Google</a><h2>Relative URLs</h2><a href="html_images.asp">HTML Images</a><a href="/css/default.asp">CSS Tutorial</a>
```

HTML Links - Use an Image as a Link

To use an image as a link, just put the tag inside the <a> tag:

```
<a href="default.asp">
<img src="smiley.gif" alt="HTML tutorial" style="width:42px;height:42px;">
</a>
```

Link to an Email Address

Use mailto: inside the href attribute to create a link that opens the user's email program (to let them send a new email):

Send email

HTML Table

A table in HTML consists of table cells inside rows and columns

```
        <
```

Table Cells

Each table cell is defined by a and a tag. td stands for table data. Everything between and

Table Rows

Each table row starts with a and end with a

Table Headers

Sometimes you want your cells to be headers, in those cases use the tag instead of the tag:

HTML Forms

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

<form> Element

The HTML <form> element is used to create an HTML form for user input:

```
<form>
.
form elements
.
</form>
```

<input> Element

The HTML <input> element is the most used form element. An <input> element can be displayed in many ways, depending on the type attribute.

Туре	Description
<input type="text"/>	Displays a single-line text input field
<input type="radio"/>	Displays a radio button (for selecting one of many choices)
<input< td=""><td>Displays a checkbox (for selecting zero or more of many choices)</td></input<>	Displays a checkbox (for selecting zero or more of many choices)
type="checkbox">	
<input type="submit"/>	Displays a submit button (for submitting the form)
<input type="button"/>	Displays a clickable button

Text Fields

The <input type="text"> defines a single-line input field for text input.

Example

A form with input fields for text:

```
<form>
<label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last name:</label><br>
<input type="text" id="lname" name="lname">
</form>
```

<label> Element

The <label> tag defines a label for many form elements. The <label> element is useful for screen-reader users because the screen-reader will read out loud the label when the user focus on the input element. The for attribute of the <label> tag should be equal to the id attribute of the <input> element to bind them together.

Radio Buttons

The <input type="radio"> defines a radio button. Radio buttons let a user select ONE of a limited number of choices.

Example

A form with radio buttons:

```
Choose your favorite Web language:
<form>
<input type="radio" id="html" name="fav_language" value="HTML">
<label for="html">HTML</label><br>
<input type="radio" id="css" name="fav_language" value="CSS">
<label for="css">CSS</label><br>
<input type="radio" id="javascript" name="fav_language" value="JavaScript">
<label for="javascript">JavaScript</label><</form>
```

Choose your favorite Web language:

O HTML

° css

O JavaScript

Checkboxes

The <input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

Example

A form with checkboxes:

```
<form>
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
<label for="vehicle1"> I have a bike</label><br>
<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
<label for="vehicle2"> I have a car</label><br>
<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
<label for="vehicle3"> I have a boat</label>
</form>
```

I have a bike

I have a car

I have a boat

Submit Button

The <input type="submit"> defines a button for submitting the form data to a form-handler. The form-handler is typically a file on the server with a script for processing input data. The form-handler is specified in the form's action attribute.

Example

A form with a submit button:

```
<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br>
  <input type="submit" value="Submit">
  </form>
```

Tag	Description	
	Defines a table	
	Defines a header cell in a table	

	Defines a row in a table	
	Defines a cell in a table	
<caption></caption>	Defines a table caption	
<colgroup></colgroup>	Specifies a group of one or more columns in a table for formatting	
<col/>	Specifies column properties for each column within a <colgroup></colgroup>	
	element	
<thead></thead>	Groups the header content in a table	
	Groups the body content in a table	
<tfoot></tfoot>	Groups the footer content in a table	

HTML Form Attributes

Action Attribute

The action attribute defines the action to be performed when the form is submitted. Usually, the form data is sent to a file on the server when the user clicks on the submit button.

<form action="/action page.php">

Target Attribute

The target attribute specifies where to display the response that is received after submitting the form.

<form action="/action_page.php" target="_blank">

Method Attribute

The method attribute specifies the HTTP method to be used when submitting the form data. The form-data can be sent as URL variables (with method="get") or as HTTP post transaction (with method="post").

<form action="/action_page.php" method="get">
<form action="/action page.php" method="post">

Autocomplete Attribute

The <u>autocomplete</u> attribute specifies whether a form should have autocomplete on or off. When autocomplete is on, the browser automatically complete values based on values that the user has entered before.

<form action="/action_page.php" autocomplete="on">

The HTML <form> Elements

The HTML <form> element can contain one or more of the following form elements:

<input>

- <label>
- <select>
- <textarea>
- <button>
- <fieldset>
- <legend>
- <datalist>
- <output>
- <option>
- <optgroup>

How To Add CSS

When a browser reads a style sheet, it will format the HTML document according to the information in the style sheet.

Three Ways to Insert CSS

There are three ways of inserting a style sheet:

- Inline CSS
- Internal CSS
- External CSS

Inline CSS

An inline style may be used to apply a unique style for a single element. To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

```
<h1 style="color:blue;text-align:center;">This is a heading</h1>
This is a paragraph.
```

Lab Activities

Activity 1:

```
<!DOCTYPE html>
<html>
<body>
<h2>The target Attribute</h2>
<a href="https://www.google.com/" target="_blank">Visit Google</a>
If target="_blank", the link will open in a new browser window or tab.
</body>
</html>
```

Activity 2:

```
<!DOCTYPE html>
<html>
<body>
<h2>Absolute URLs</h2>
<a href="https://www.w3.org/">W3C</a>
<a href="https://www.google.com/">Google</a>
<h2>Relative URLs</h2>
<a href="html_images.asp">HTML Images</a>
<a href="html_images.asp">CSS Tutorial</a>
</body>
</html>
```

Activity 3:

Activity 4:

```
<!DOCTYPE html>
<html>
<body>
<h2>Link to an Email Address</h2>
To create a link that opens in the user's email program (to let them send a new email), use mailto: inside the href attribute:
<a href="mailto:someone@example.com">Send email</a>
```

```
</body>
</html>
</body>
</html>
<body>
<h2>Button as a Links</h2>
Click the button to go to the HTML tutorial.
<button onclick="document.location='default.asp"">HTML Tutorial</button>
</body>
</html>
```

Activity 5:

```
<!DOCTYPE html>
<html>
<style>
 table,
 td {
  border: 1px solid black;
</style>
<body>
 <h2>A basic HTML table</h2>
 Company
    Contact
    Country
  Honda
    anything
    Pakistan
  Toyota
    anything
    Pakistan
```

```
</body>
</html>
```

Activity 6:

Activity 7:

Activity 8:

```
<!DOCTYPE html>
<html>
<body>
  <h2>Checkboxes</h2>
  The <strong>input type="checkbox"</strong> defines a checkbox:
  <form action="/action page.php">
    <input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
    <a href="relative-vehicle1"> I have a bike</a>
    <input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
    <label for="vehicle2"> I have a car</label><br>>
    <input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
    <label for="vehicle3"> I have a boat</label><br><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

Activity 9:

```
<!DOCTYPE html>
<html>
<body>
<h1 style="color:blue;text-align:center;">This is a heading</h1>
This is a paragraph.
</body>
</html>
```

Activity 10:

Learning to code is free on freeCodeCamp, that's why they call it freeCodeCamp > freeCodeCamp generates money through donations inorder to pay employees and maintain servers. > If you're generous enough, consider joining others who have been donating to freeCodeCamp > At freeCodeCamp, it's not all about typing on a code editor alone, there's a forum like StackOverflow, where you can ask questions about your coding problems and get answers from campers alike. </article> </body> </html>

3. Lab Tasks

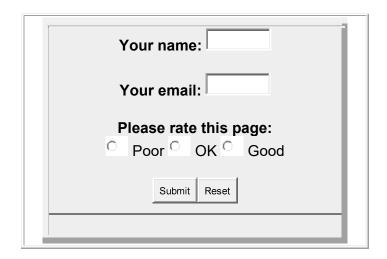
1. Create a table as given below

Schedule					
Time	Monda y	Tuesda y	Wednesda y	Thursda y	Frida y
9:00	MAT 104		MAT 104		MAT 104
10:0 0		PHI 201		PHI 201	
11:0 0	SPA 207		SPA 207	201	SPA 207
Noo n			LUNCH		

2. Create a simple form as shown below

a.

How it looks on your web page



b.

Please enter your name:	how wide?			
The first line of your address:	how wide?			
Your district:	how wide?			
Your town:	how wide?			
Post-Code: how wid middle?)	le? (Are all post-codes 6/7 characters wide with a space in the			
Telephone Number: how wide? How many digits in a phone number?				
Email address: how wide? How many characters should we allow for?				
Please select the item you want Jackets	to buy: o for T-shirts, Linen-shirts, Jeans, Jumpers,			
Which size ? for X-Small, Small, Medium, Large, X-Large,				
Which colour: Menu for:	White, Navy blue, Black, Red, Green, Purple			
Suggestions box:	how big?			

Click here to clear the form if you want to order another item: Reset form here

Submit your order: Submit button here