

CIS 181: Introduction to Web Development

Lab 1: Creating a Basic HTML Web Page

Due Date: 09/04/2024 @ 11:59pm

Objective:

- Introduce students to HTML by creating a simple web page.
- Understand the basic structure of an HTML document.
- Learn how to use basic HTML tags to create and organize content on a web page.

Lab Instructions:

Part 1: Setting Up Your Environment

1. Choose a Text Editor:
 - Ensure that you have a text editor installed. Recommended options include Visual Studio Code, Sublime Text, or Atom.
 - Open your text editor and create a new folder named `Lab1_HTML` on your computer to store your files.
2. Create an HTML File:
 - Inside the `Lab1_HTML` folder, create a new file named `index.html`.
 - This file will serve as the main HTML file for your web page.

Part 2: Writing Your First HTML Document

1. Structure Your HTML Document:
 - Open `index.html` in your text editor and write the basic structure of an HTML document.

```
```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 HTML Web Page</title>
</head>
<body>
 <!-- Content will go here -->
</body>
</html>
```
```

- This code sets up the basic structure of an HTML document, including the document type

declaration (`<!DOCTYPE html>`), the `<html>`, `<head>`, and `<body>` tags, and a `<title>` tag that sets the title of the web page.

2. Add Content to Your Web Page:

- Inside the `<body>` tags, add the following content:

- A heading: `<h1>Welcome to My First HTML Web Page</h1>`

- A paragraph: `<p>This is a paragraph of text on my first HTML page. I am learning how to structure content using HTML tags.</p>`

- An image: ``

- A link: `Visit Example Website`

Example:

```
```html
<h1>Welcome to My First HTML Web Page</h1>
<p>This is a paragraph of text on my first HTML page. I am learning how to structure
content using HTML tags.</p>

<p>Visit Example Website</p>
```
```

3. Save and Preview Your Web Page:

- Save your changes in the text editor.

- Open the `index.html` file in a web browser to see the web page you've created.

Part 3: Adding More HTML Elements

1. Add a List:

- Create an ordered or unordered list with at least three items:

```
```html
<h2>My Favorite Websites</h2>

 Google
 YouTube
 Wikipedia

```
```

2. Add a Table:

- Create a simple table with two rows and two columns:

```
```html
<h2>My Simple Table</h2>
<table border="1">
 <tr>
 <th>Column 1</th>
 <th>Column 2</th>
 </tr>
 <tr>
 <td> </td>
 <td> </td>
 </tr>
</table>
```
```

```
<td>Row 1, Cell 1</td>
<td>Row 1, Cell 2</td>
</tr>
<tr>
<td>Row 2, Cell 1</td>
<td>Row 2, Cell 2</td>
</tr>
</table>
...
```

3. Add a Form:

- Create a simple form that includes a text input and a submit button:

```
``html
<h2>Contact Form</h2>
<form action="#" method="post">
  <label for="name">Name:</label><br>
  <input type="text" id="name" name="name"><br><br>
  <input type="submit" value="Submit">
</form>
...
```

Part 4: Submission

1. Review Your Work:

- Ensure that your HTML file is correctly structured and that all elements display as expected in the web browser.
- Check that your code is well-organized and includes comments where necessary.

2. Submit Your File:

- Submit the `index.html` file through Brightspace and feel free to upload it on your GitHub page.