Lab 1

INTRODUCTION TO HTML

Useful website for HTML information

W3schools HTML

https://www.w3schools.com

Text Editors

- Visual Studio Code
- TextPad
- Notepad++
- Brackets
- Sublime Text
- Atom

Every HTML document should start with this Template

```html
<!DOCTYPE html>

<html>

<head>

<!-- metadata goes here -->
    <title></title>

</head>

<body>

<!-- content goes here -->

</body>

</html>
```

Comments in HTML

<p> Some text

<!-- This is a description or comment -->

</p>

General Guidelines for saving

- Use all lowercase characters

- Avoid using spaces in file names

- Use the file extension .html or .htm

- Call the first page of the website index.html

Tags

`<tagname>` content `</tagname>`

Opening tag

Closing tag

Headers and Paragraphs

<h1>I'm a header **</h1>**

<h2>I'm a slightly smaller header **</h2>**

<h6>I'm the smallest header **</h6>**

<p>I'm a paragraph**</p>**

Headers and Paragraphs

`<h1>`I'm a header `</h1>`

`<h2>`I'm a slightly smaller header `</h2>`

`<h6>`I'm the smallest header `</h6>`

`<p>`I'm a paragraph`</p>`

I'm a header

I'm a slightly smaller header
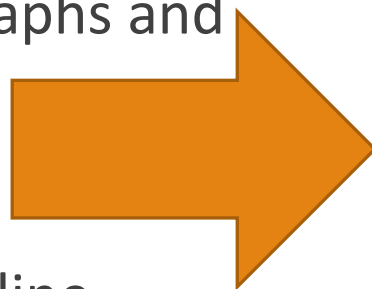
I'm the smallest header

I'm a paragraph

Paragraphs and line breaks

<h1>Lab 1**</h1>**

<p>Lab 1 is an introduction to HTML. Topics discussed include tags, paragraphs and line breaks **</p>**

**
**

<p>Paragraphs and line breaks are very important for structure**</p>**

Lab 1

Lab 1 is an introduction to HTML. Topics discussed include tags, paragraphs and line breaks

Paragraphs and line breaks are very important for structure

Line Breaks

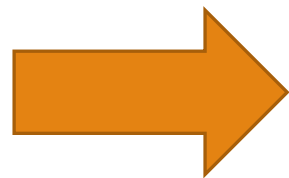**\
** or **\
** can be used for line breaks.

Using the enter key in HTML does not create new lines.

\<p>This text

is on

separate

lines**\</p>**

➡️ This text is on separate lines

Bold, Italics & Underlined
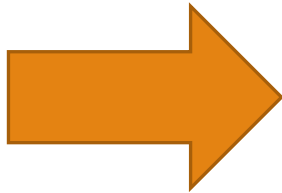
Some bold text

**
**

<i>Italic text</i>

**
**

<u>This text is underlined</u>

Some bold text

Italic text
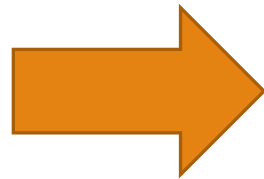
This text is underlined

Strong and Emphasis

For accessibility, the tags **<strong>** and **<em>** are used for bold and italics respectively. This is important so that onscreen readers read the text appropriately. Use these instead of <b> and <i> whenever appropriate.

https://www.w3schools.com/html/html_formatting.asp

```
<strong>Important
note:</strong>
This is <em>very</em>
important!
```

Important note: This is *very* important!

Images

```
<img src="tudublin_logo.png">
```

Images

Width and height can be specified

```
<img src="tudublin_logo.png" width="400", height="300">
```

Links

"a" the tag for is for an anchor

<**a** href="https://www.duckduckgo.com">Link to Duckduckgo<**/a**>

Link to Duckduckgo

Buttons, ordered lists and unordered lists

`<button>I'm a button!</button>` ➡️ I'm a button!

```
<ul>
 <li>List Item 1</li>
 <li>List Item 2</li>
</ul>
```
➡️
- List Item 1
- List Item 2

```
<ol>
 <li>List Item 1</li>
 <li>List Item 2</li>
</ol>
```
➡️
1. List Item 1
2. List Item 2

ordered lists number types

```
<ol type = "i" start = "10">
<li>List Item 1</li>
<li>List Item 2</li>

</ol>
```

x. List Item 1
xi. List Item 2

```
<ol type = "A">
<li>List Item 1</li>
<li>List Item 2</li>

</ol>
```

A. List Item 1
B. List Item 2

https://www.w3schools.com/html/html_lists_ordered.asp
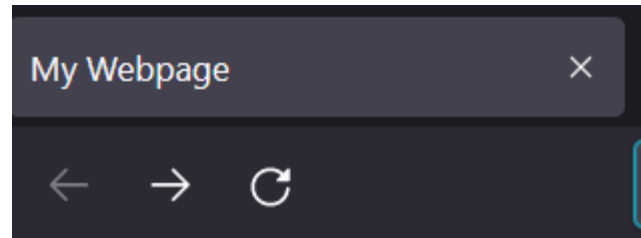
Title

```
<!DOCTYPE html>

<html>

<head>
      <title>My Webpage</title>

</head>

<body>

<!-- content goes here -->

</body>

</html>
```

General HTML rules

Tags must be closed

**** Bold text ****

<u> Underlined text **</u>**

<p> Text in a paragraph **</p>**

General HTML rules

Void/self closing tags:

```
<img src="tudublin_logo.png">
<br>
```

But you can add an extra "**/**" to close them (and adhere to strict XHTML):

```
<img src="tudublin_logo.png" />
<br />
```

General HTML rules

Tags must be closed **in nested order**

`<b> <i>` Some text `</i> </b>` ✔

`<b> <i>` Some text `</b> </i>` ✘

General HTML rules

- Write tags in lower case

- Use quotes for values of attributes

```
<ol type = "i" start = "10">
```

Lab 1 Exercise – creating a webpage

Get a royalty free image (or include your own) and find a picture of your favourite animal.

Some sites with royalty free images (note not all images may be royalty free):
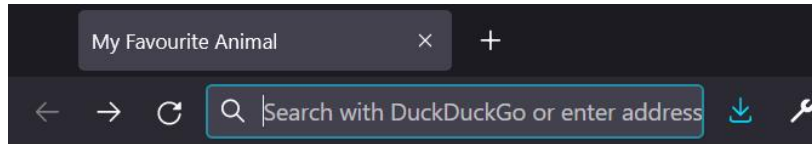
unsplash.com

shutterstock.com

pixabay.com

pexels.com

You will need your image in the same directory as your html page

Create a similar page of the same structure

Be sure to demonstrate use of each tag seen in the example on the left!