

HTML 5

HTML is the **markup language** used for Web pages. HTML is the first thing we need to learn when we want to go into Web Development.

- HTML stands for **Hyper Text Markup Language**
- HTML describes the **structure** of a Web page
- HTML consists of a series of **elements**
- HTML elements tell the browser **how to display the content**

Editor

We will be using **Notepad++** as our editor.

Notepad++

Notepad++

<https://notepad-plus-plus.org/downloads/>

Go to download

Notepad++

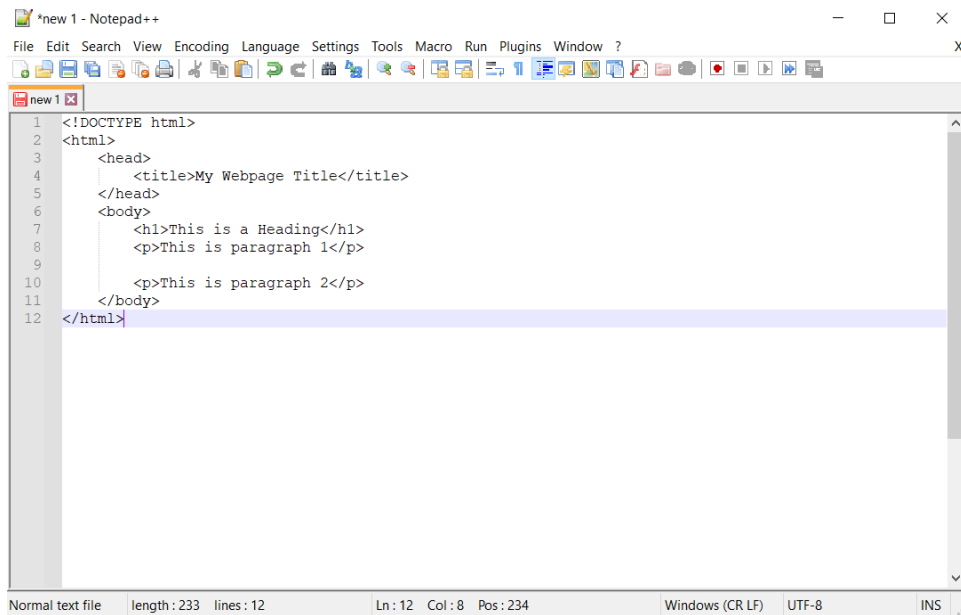
<https://notepad-plus-plus.org> ▼

What is **Notepad++**. **Notepad++** is a free (as in “fi code editor and Notepad replacement that supp Windows environment, its use is governed by GN editing component Scintilla, **Notepad++** is writer

Downloads

Downloads - Notepad++

1. Create a folder and name it **WebClass**
2. Download and install Notepad++
3. Open Notepad++
4. Type the following lines into Notepad++

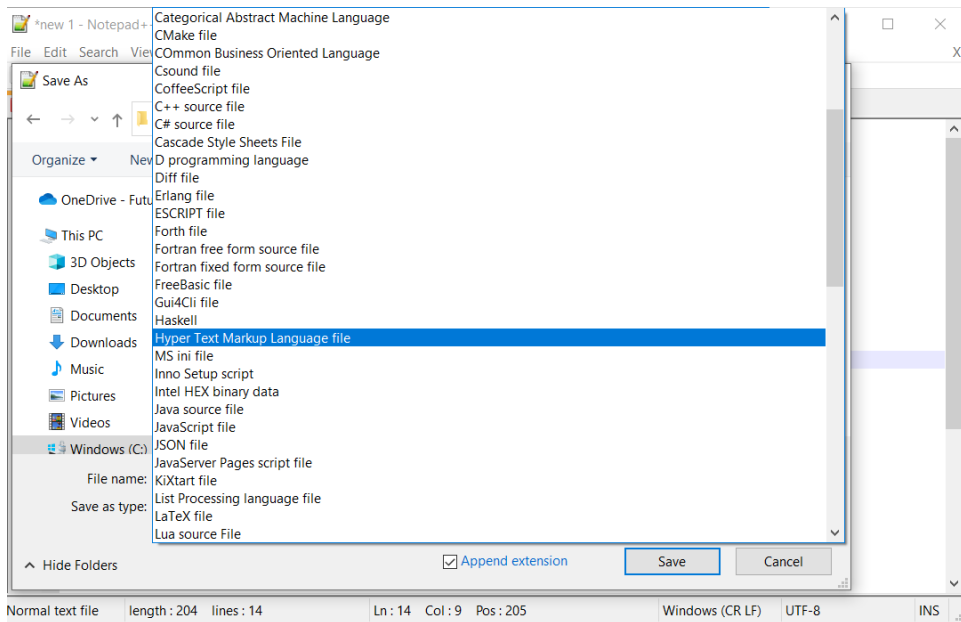


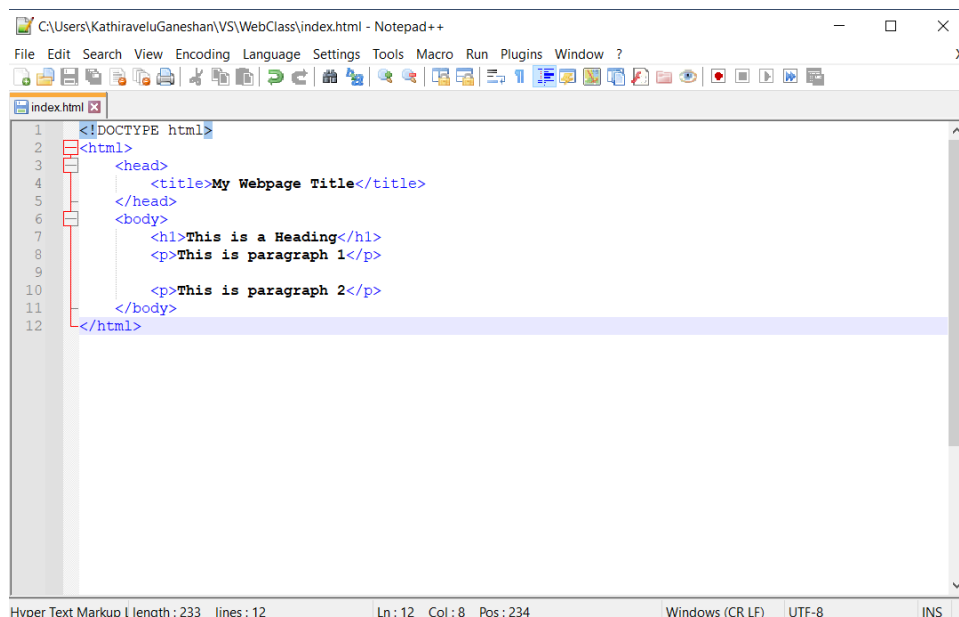
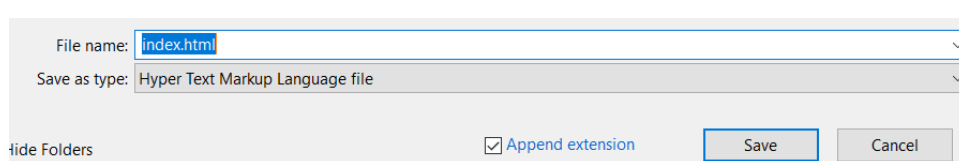
The screenshot shows the Notepad++ application window titled "new 1 - Notepad++". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and ?. The toolbar contains various icons for file operations and editing. The text area displays the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>My Webpage Title</title>
5   </head>
6   <body>
7     <h1>This is a Heading</h1>
8     <p>This is paragraph 1</p>
9
10    <p>This is paragraph 2</p>
11  </body>
12 </html>
```

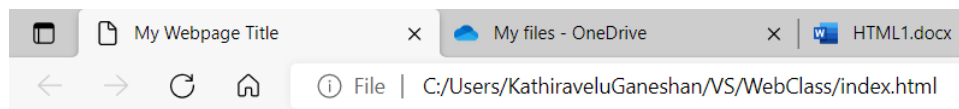
The status bar at the bottom indicates: Normal text file, length: 233, lines: 12, Ln: 12, Col: 8, Pos: 234, Windows (CR LF), UTF-8, INS.

5. Save the file as *index.html* in the *WebClass* folder. Make sure you select the right file type (*Hyper Text Markup Language file*) as shown below. And note that Notepad++ has so many options for file types.





6. Open the *WebClass* folder and double click *index.html*



This is a Heading

This is paragraph 1.

This is paragraph 2.

Let us look at what all these lines mean.

```

<!DOCTYPE html>
<html>
  <head>
    <title>My Webpage Title</title>
  </head>
  <body>
    <h1>This is a Heading</h1>
    <p>This is paragraph 1</p>

    <p>This is paragraph 2</p>
  </body>
</html>

```

- `<!DOCTYPE html>` is used to declare this document as an **HTML5 document**
- `<html>` is the **root element** of the HTML page.
- `<head>` is the **element** that contains meta information about the HTML page.
- `<title>` is the **element** used to specify the title for the HTML page. This is the Title shown in the browser's title bar or in the page's tab.
- `<body>` is the **element** used to define the document's body. This is the container for all the visible contents, such as headings, paragraphs, hyperlinks, images, tables, and lists.
- `<h1>` is the **element** used to define a large heading. Other options are h2, h3, h4, h5 and h6. h1 is the largest.
- `<p>` is the **element** used to define a paragraph.

HTML Elements

An HTML element is defined by a start tag, some content, and an end tag.

For example, in `<h1>This is a Heading</h1>`, `<h1>` is the **start tag**, `</h1>` is the **end tag** and “This is a Heading” is the **content**.

Note: The `
` tag defines a line break, and is an **empty element** without a closing tag.

HTML Page Structure

```

<html>

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

```

<body>

<h1>This is a Heading</h1>

<p>This is paragraph 1</p>

<p>This is paragraph 2</p>

</body>

</html>

HTML Documents

All HTML documents must start with a document type declaration: `<!DOCTYPE html>`.

The HTML document itself begins with the `<html>` (start tag) and ends with `</html>` (end tag).

The visible part of the HTML document is between the `<body>` (start tag) and `</body>` (end tag).

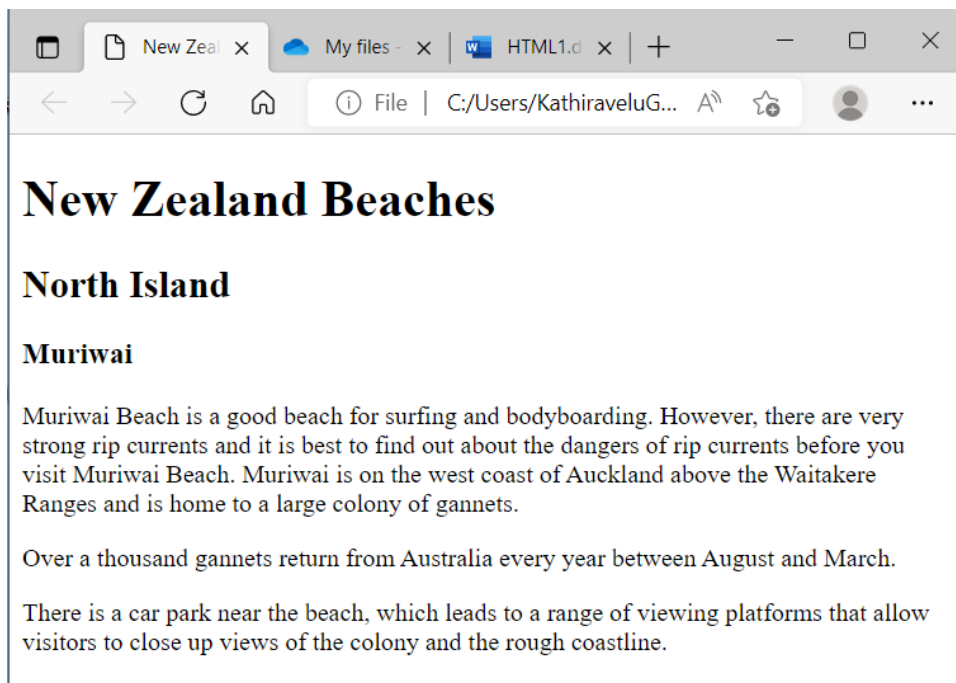
Let us create our first website.

7. Open the *index.html* file in Notepad++ and edit as shown below.

```
*C:\Users\KathiraveluGaneshan\VS\WebClass\index.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

index.html x
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>New Zealand Beaches Website</title>
5 </head>
6 <body>
7   <h1>New Zealand Beaches</h1>
8   <h2>North Island</h2>
9   <h3>Muriwai</h3>
10
11   <p>
12     Muriwai Beach is a good beach for surfing and bodyboarding.
13     However, there are very strong rip currents and it is best to
14     find out about the dangers of rip currents before you visit
15     Muriwai Beach. Muriwai is on the west coast of Auckland
16     above the Waitakere Ranges and is home to a large colony
17     of gannets.
18   </p>
19
20   <p>
21     Over a thousand gannets return from Australia every year
22     between August and March.
23   </p>
24
25   <p>
26     There is a car park near the beach, which leads
27     to a range of viewing platforms that allow visitors
28     to close up views of the colony and the rough coastline.
29   </p>
30 </body>
31 </html>
32
33
34
35
36
Hyper Text Markup L length: 891 lines: 36 Ln: 16 Col: 63 Pos: 527 Windows (CR LF) UTF-8 INS
```

8. Open the **WebClass** folder and double click **index.html**



HTML Attributes

HTML **attributes** provide additional information about HTML elements.

- All HTML elements can have **attributes**
- Attributes are always **specified** in the start tag
- Attributes usually come in **name/value pairs** like: name="value"

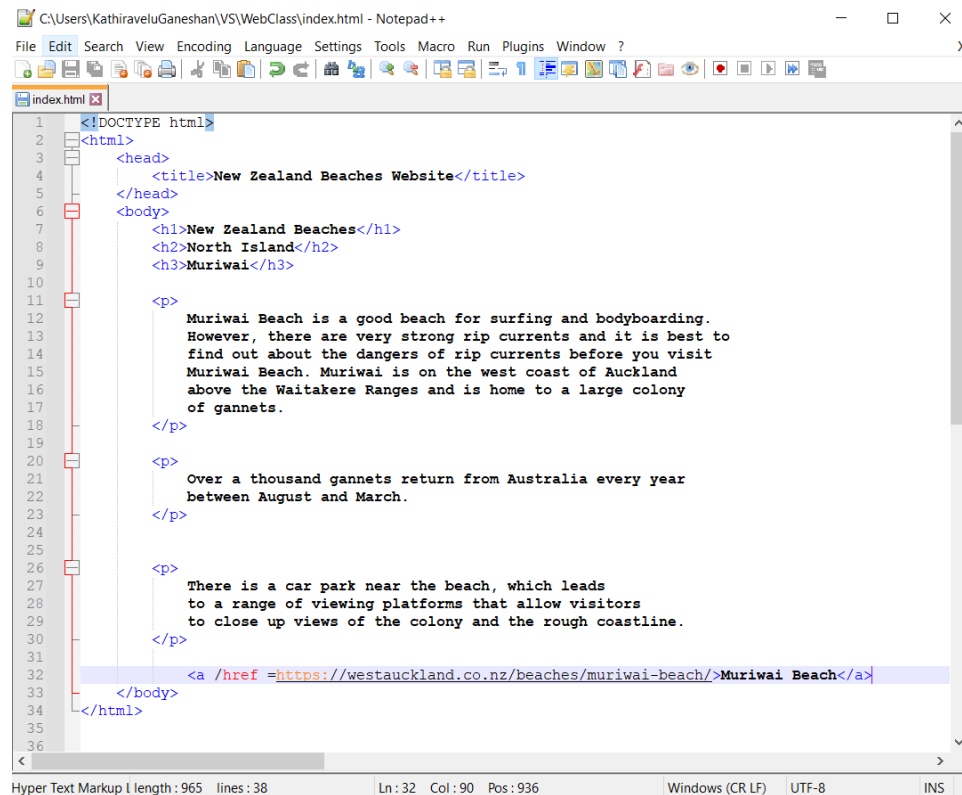
href Attribute

The **<a>** tag defines a **hyperlink**. The **href** attribute specifies the URL of the page the link refers to.

9. Open the **index.html** file in Notepad++ and add

`Muriwai Beach`

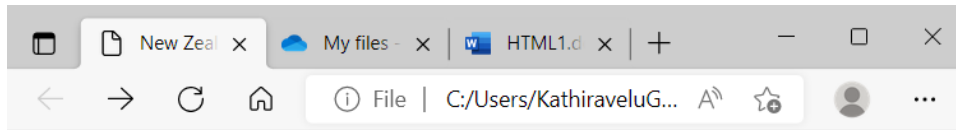
as shown below.



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>New Zealand Beaches Website</title>
5   </head>
6   <body>
7     <h1>New Zealand Beaches</h1>
8     <h2>North Island</h2>
9     <h3>Muriwai</h3>
10
11     <p>
12       Muriwai Beach is a good beach for surfing and bodyboarding.
13       However, there are very strong rip currents and it is best to
14       find out about the dangers of rip currents before you visit
15       Muriwai Beach. Muriwai is on the west coast of Auckland
16       above the Waitakere Ranges and is home to a large colony
17       of gannets.
18     </p>
19
20     <p>
21       Over a thousand gannets return from Australia every year
22       between August and March.
23     </p>
24
25     <p>
26       There is a car park near the beach, which leads
27       to a range of viewing platforms that allow visitors
28       to close up views of the colony and the rough coastline.
29     </p>
30
31     <a href = "https://westauckland.co.nz/beaches/muriwai-beach/">Muriwai Beach</a>
32   </body>
33 </html>
```

Hyper Text Markup I length : 965 lines : 38 Ln : 32 Col : 90 Pos : 936 Windows (CR LF) UTF-8 INS

10. Open the **WebClass** folder and double click **index.html** or refresh your website if it is already open.



New Zealand Beaches

North Island

Muriwai

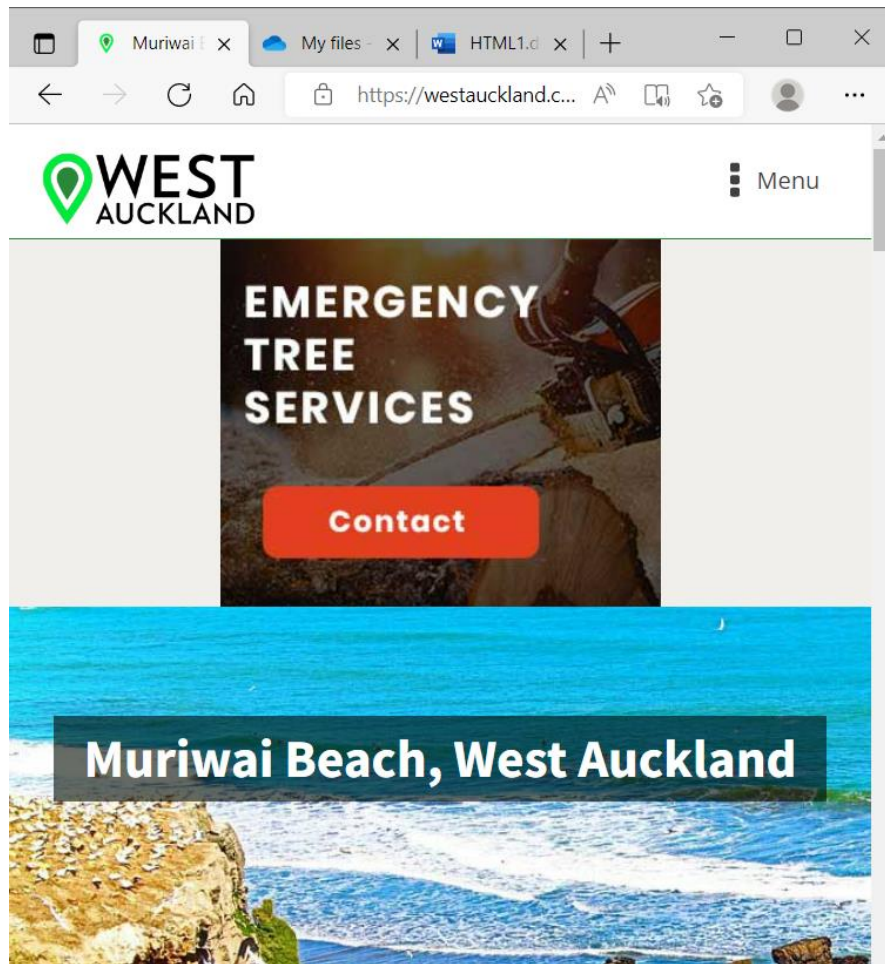
Muriwai Beach is a good beach for surfing and bodyboarding. However, there are very strong rip currents and it is best to find out about the dangers of rip currents before you visit Muriwai Beach. Muriwai is on the west coast of Auckland above the Waitakere Ranges and is home to a large colony of gannets.

Over a thousand gannets return from Australia every year between August and March.

There is a car park near the beach, which leads to a range of viewing platforms that allow visitors to close up views of the colony and the rough coastline.

[Muriwai Beach](#)

11. Click on the **link** "Muriwai Beach" and it will take you to the Muriwai Beach website.



src, width and height Attributes

The **** tag is used to embed an image in an HTML page. The **src** attribute specifies the path to the image to be displayed.

12. Copy a **.jpg** file into the **WebClass** folder and **rename** the **.jpg** file **myimage.jpg**.
13. Add the line `` to the **index.html** file as shown below.

```
C:\Users\KathiraveluGaneshan\VS\WebClass\index.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
index.html x
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>New Zealand Beaches Website</title>
5   </head>
6   <body>
7     <h1>New Zealand Beaches</h1>
8     <h2>North Island</h2>
9     <h3>Muriwai</h3>
10
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12
13     <p>
14       Muriwai Beach is a good beach for surfing and bodyboarding.
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16       find out about the dangers of rip currents before you visit
17       Muriwai Beach. Muriwai is on the west coast of Auckland
18       above the Waitakere Ranges and is home to a large colony
19       of gannets.
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22     <p>
23       Over a thousand gannets return from Australia every year
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28       There is a car park near the beach, which leads
29       to a range of viewing platforms that allow visitors
30       to close up views of the colony and the rough coastline.
31     </p>
32
33     <a href = "https://westauckland.co.nz/beaches/muriwai-beach"/>Muriwai Beach</a>
34   </body>
35 </html>
```

14. Reload the web page.


New Zeal xMy files xHTML1.d x

File | C:/Users/KathiraveluG...

New Zealand Beaches

North Island

Muriwai



Muriwai Beach is a good beach for surfing and bodyboarding. However, there are very strong rip currents and it is best to find out about the dangers of rip currents before you visit Muriwai Beach. Muriwai is on the west coast of Auckland above the Waitakere Ranges and is home to a large colony of gannets.

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[Muriwai Beach](#)