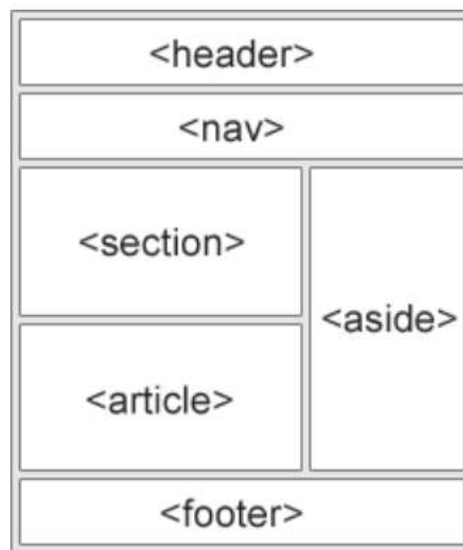


WPE Week 2b Lab Activity

Using the lab computers, create the following webpage to learn HTML layout (column) elements.

Overview of HTML layout elements

HTML offers several semantic (meaning or defining) elements that define the different parts/columns of a webpage. There are four different layouts techniques, however, for this tutorial you will learn one layout called the CSS float property.



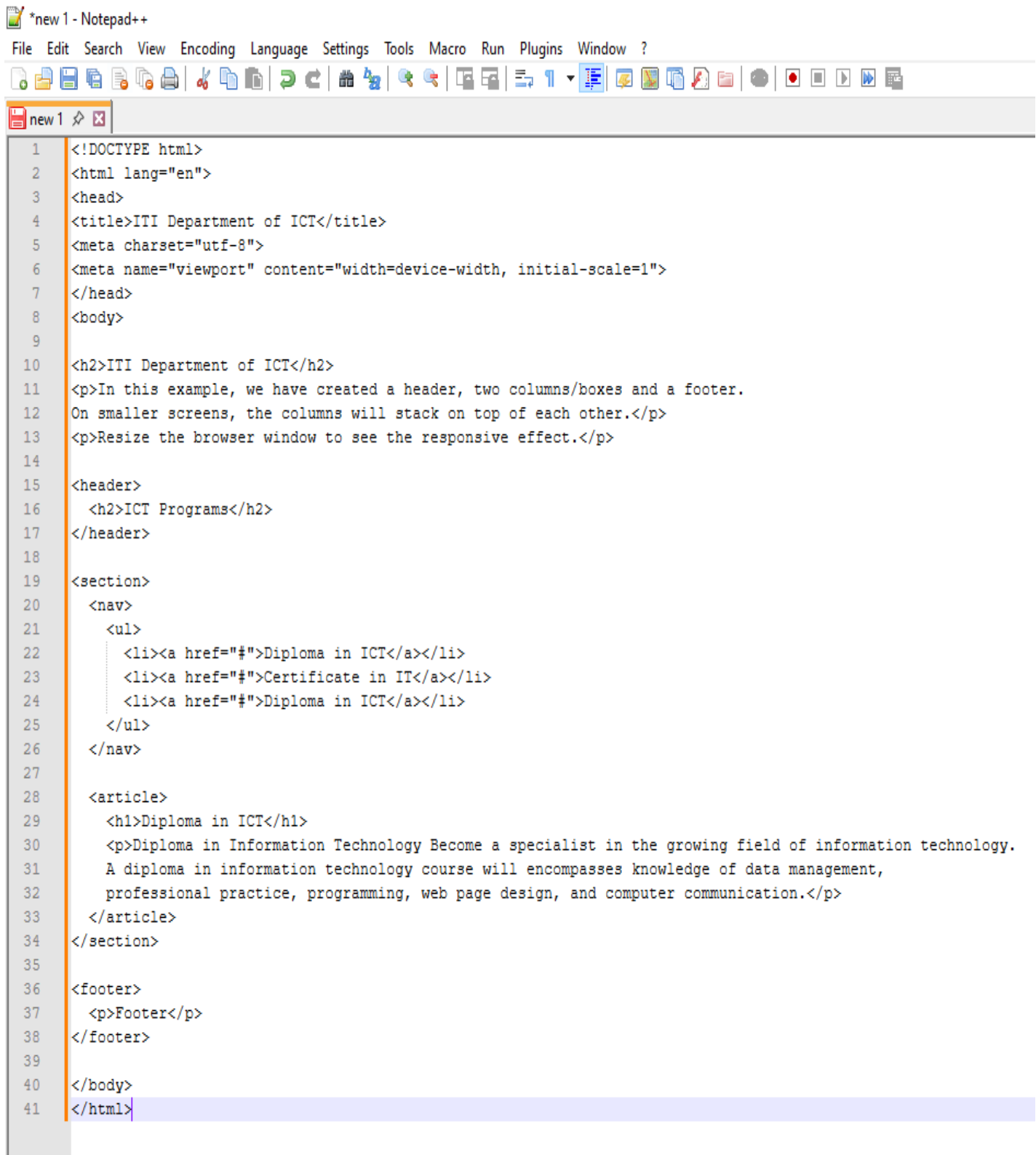
HTML layout tag	Use
<code><header></code>	Defines a header for a document or a section
<code><nav></code>	Defines a set of navigation links
<code><section></code>	Defines a section in a document
<code><article></code>	Defines independent, self-contained content
<code><aside></code>	Defines content aside from the content (like a sidebar)

How to use?

Within the body element of your HTML document use the HTML layout tags needed to design your webpage.

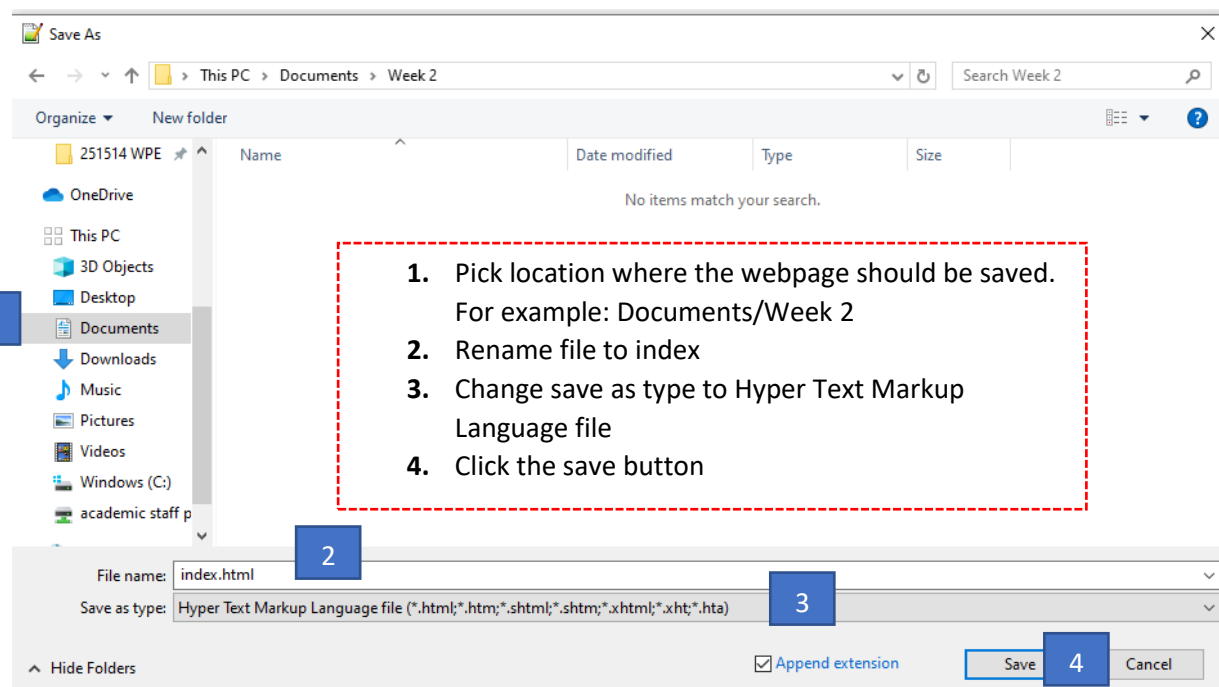
For this tutorial, we will use the tags header, section, article and footer. Once used you can now place other HTML elements within each layout element or column to provide a professional looking and uniform website.

Step 1: Using Notepad++, create a new file and type the following HTML syntax.



```
*new 1 - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
new 1
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>ITI Department of ICT</title>
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 </head>
8 <body>
9
10 <h2>ITI Department of ICT</h2>
11 <p>In this example, we have created a header, two columns/boxes and a footer.
12 On smaller screens, the columns will stack on top of each other.</p>
13 <p>Resize the browser window to see the responsive effect.</p>
14
15 <header>
16   <h2>ICT Programs</h2>
17 </header>
18
19 <section>
20   <nav>
21     <ul>
22       <li><a href="#">Diploma in ICT</a></li>
23       <li><a href="#">Certificate in IT</a></li>
24       <li><a href="#">Diploma in ICT</a></li>
25     </ul>
26   </nav>
27
28   <article>
29     <h1>Diploma in ICT</h1>
30     <p>Diploma in Information Technology Become a specialist in the growing field of information technology.
31     A diploma in information technology course will encompasses knowledge of data management,
32     professional practice, programming, web page design, and computer communication.</p>
33   </article>
34 </section>
35
36 <footer>
37   <p>Footer</p>
38 </footer>
39
40 </body>
41 </html>
```

Step 2: Go to file/save to save your webpage as index.html. IMPORTANT: save your webpage in a location where you can access and open it.



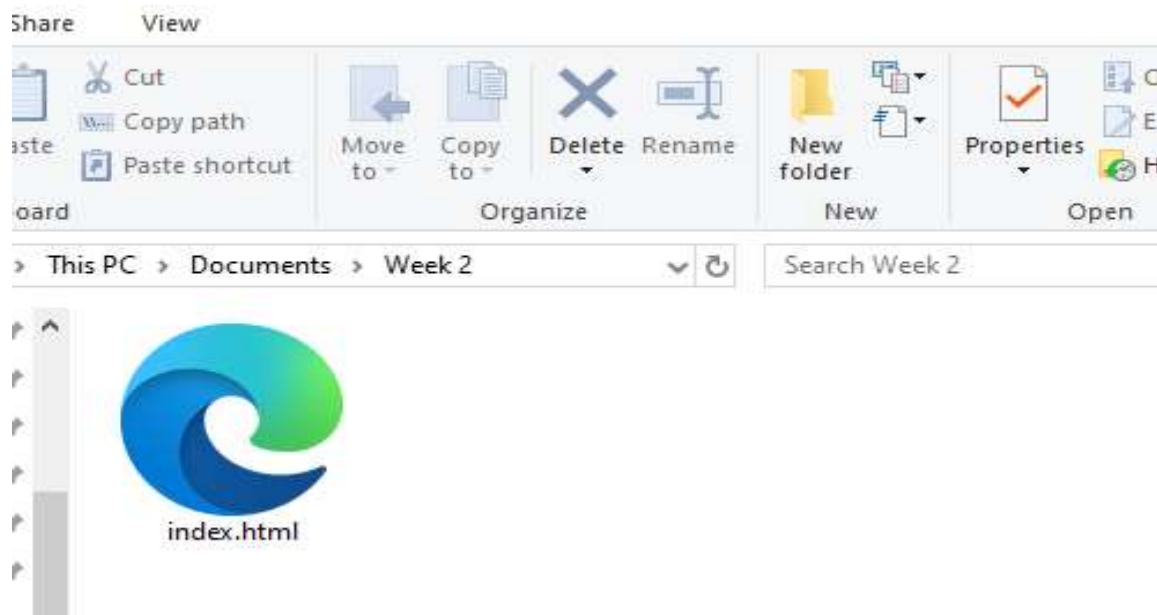
Step 3: After saving, your notepad++ editor should display like this

```
C:\Users\Jerome Kris Semos\Documents\Week 2\index.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

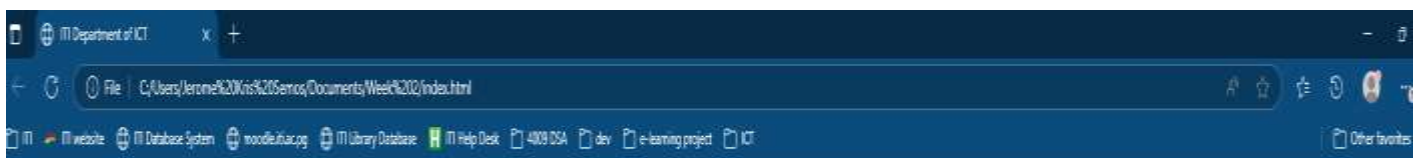
index.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <title>ITI Department of ICT</title>
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 </head>
8 <body>
9
10 <h2>ITI Department of ICT</h2>
11 <p>In this example, we have created a header, two columns/boxes and a footer.
12 On smaller screens, the columns will stack on top of each other.</p>
13 <p>Resize the browser window to see the responsive effect.</p>
14
15 <header>
16 <h2>ICT Programs</h2>
17 </header>
18
19 <section>
20 <nav>
21 <ul>
22 <li><a href="#">Diploma in ICT</a></li>
23 <li><a href="#">Certificate in IT</a></li>
24 <li><a href="#">Diploma in ICT</a></li>
25 </ul>
26 </nav>
27
28 <article>
29 <h1>Diploma in ICT</h1>
30 <p>Diploma in Information Technology Become a specialist in the growing field of information technology.
31 A diploma in information technology course will encompasses knowledge of data management,
32 professional practice, programming, web page design, and computer communication.</p>
33 </article>
34 </section>
35
36 <footer>
37 <p>Footer</p>
38 </footer>
39
40 </body>
41 </html>
```

Step 4: Go to where you saved your webpage (Documents/week 2) and open the file on your favourite web browser

Week 2



Step 5: Your webpage should now appear as shown in the figure below.



ITI Department of ICT

In this example, we have created a header, two columns boxes and a footer. On smaller screens, the columns will stack on top of each other.

Resize the browser window to see the responsive effect.

ICT Programs

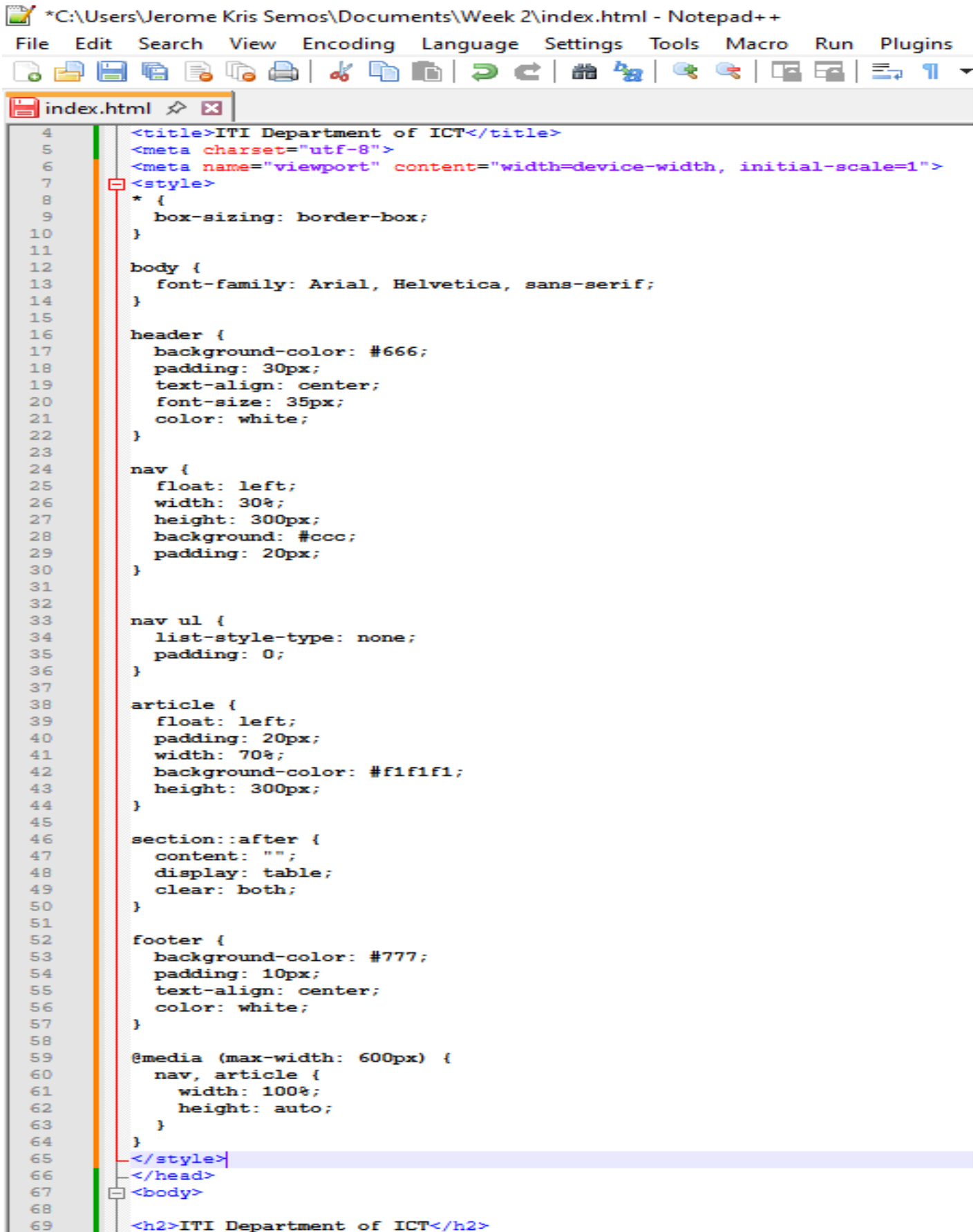
- [Diploma in ICT](#)
- [Certificate in IT](#)
- [Diploma in ICT](#)

Diploma in ICT

Diploma in Information Technology Become a specialist in the growing field of information technology. A diploma in information technology course will encompass knowledge of data management, professional practice, programming, web page design, and computer communication.

Footer

Step 6: Update and save your html document to include the following Internal CSS. Write the CSS syntax after the meta name tag within the head of your HTML document.



The screenshot shows a Notepad++ window titled "index.html" with the following code:

```
4 <title>ITI Department of ICT</title>
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <style>
8 * {
9     box-sizing: border-box;
10 }
11
12 body {
13     font-family: Arial, Helvetica, sans-serif;
14 }
15
16 header {
17     background-color: #666;
18     padding: 30px;
19     text-align: center;
20     font-size: 35px;
21     color: white;
22 }
23
24 nav {
25     float: left;
26     width: 30%;
27     height: 300px;
28     background: #ccc;
29     padding: 20px;
30 }
31
32
33 nav ul {
34     list-style-type: none;
35     padding: 0;
36 }
37
38 article {
39     float: left;
40     padding: 20px;
41     width: 70%;
42     background-color: #f1f1f1;
43     height: 300px;
44 }
45
46 section::after {
47     content: "";
48     display: table;
49     clear: both;
50 }
51
52 footer {
53     background-color: #777;
54     padding: 10px;
55     text-align: center;
56     color: white;
57 }
58
59 @media (max-width: 600px) {
60     nav, article {
61         width: 100%;
62         height: auto;
63     }
64 }
65 </style>
66 </head>
67 <body>
68
69 <h2>ITI Department of ICT</h2>
```

Step 7: Refresh your webpage and see the changes. You have now include CSS in your webpage and learnt how to use HTML layouts.

