DCS 3003

WEBSITE DESIGN

HTML

Recap

HTML

1) stands for **H**yper **T**ext **M**arkup **L**anguage

2) HTML is the primary language of the World Wide Web (WWW)

3) HTML is not case sensitive language

4) HTML IS markup language, NOT programming language

HTML – Basic Structure

1) **Tag** - Used to specify regions of HTML documents for the web browser to interpret. Example : <tagname>

2) **Element** - HTML element is everything from the start tag to the end tag. Example: <p>New paragraph.</p>

3) **Attribute** - Used to modify the value of the HTML element. Elements will often have multiple attributes.

HTML - **Tag**

1) **All HTML tags must enclosed within < > angle bracket**

2) Tags come in pairs, example : <html> and </html>

3) The first tag in a pair is the start tag, the second tag is the end tag

   -> Start tag/opening tags : <html>

   -> End tag/close tags: </html>

4) Container Element & Empty Element

HTML – Types of Tags

Container Tags	Empty Tags
Container tags require a starting as well as an ending tag.	Empty tags require just a starting tag and not an ending tag.
<HTML>and </HTML>, <TITLE> and </TITLE> are examples of container tags.	 , <IMG> are examples of empty tags.

HTML - **Element**

Examples of some HTML elements:

-> <h1>New Heading</h1>

-> <p>New paragraph</p>

Start tag	Element content	End tag
<h1>	My First Heading	</h1>
<p>	My first paragraph.	</p>
 	none	*none*

HTML - **Attribute**

1) Attributes provide additional information about elements.

2) Attributes are used with a tag to modify its function.

3) Attributes are always specified in the start tag.

Example element :	Add in attribute :
\<p\> **New paragraph** **\</p\>**	**\<p style="color:red;"\>** **New paragraph** **\</p\>**

HTML – **Basic Structure**

<html>
<head>
<title>Welcome to My Website**</title>**
</head>
<body>
<h1> My First Heading**</h1>**
</body>
</html>

<html> : Describe HTML web page that is to be viewed by a web browser.

<head> : This defines the header section of the page.

<title> : This shows a caption in the title bar of the page.

<body> : This tag show contents of the web page will be displayed.

HTML – **Activity 1**

1) Type the html code into Notepad

2) Save it as activity1.html in DCS3003\coding folder

3) Open activity1.html in your favourite browser

HTML – **Activity 1**

1) Type the html code into Notepad

```
<html>
<head>
<title>Welcome to My Website</title>
</head>
<body>

<h1>My First Heading</h1>

</body>
</html>
```
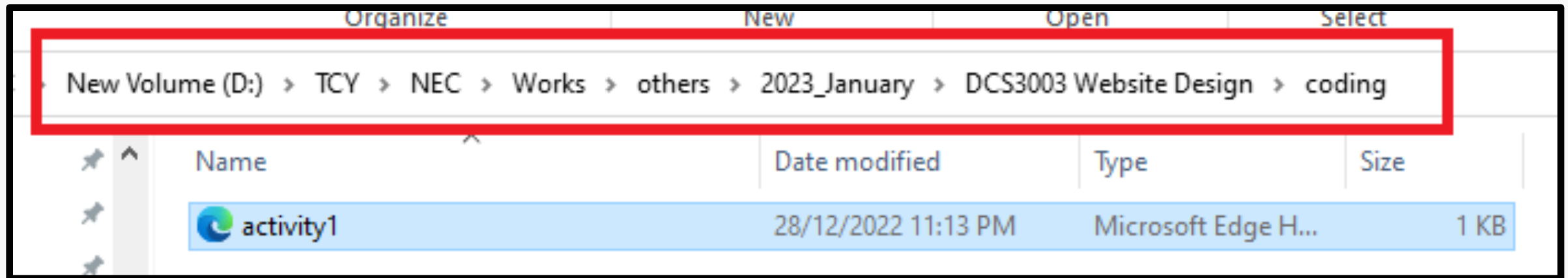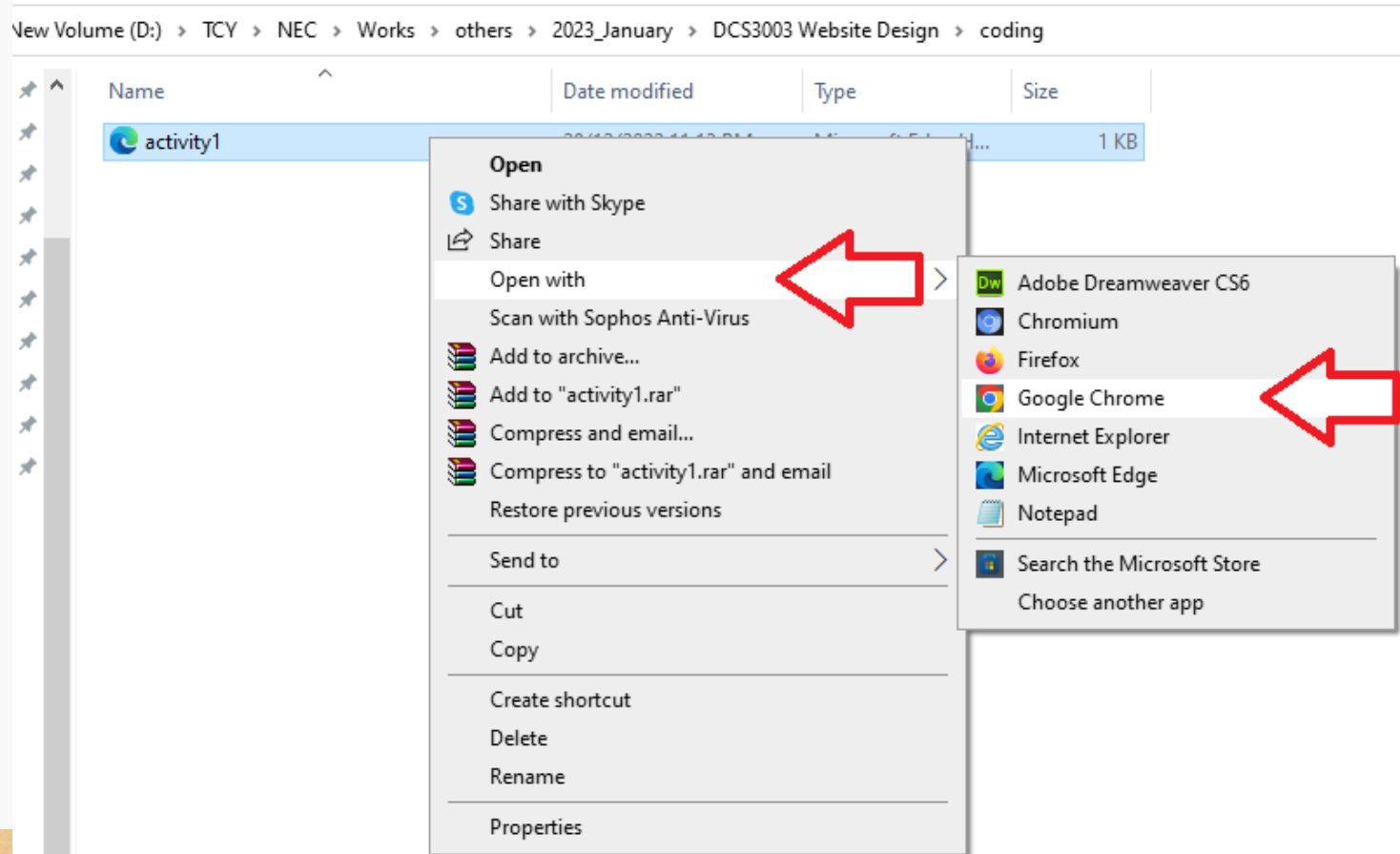
HTML – **Activity 1**
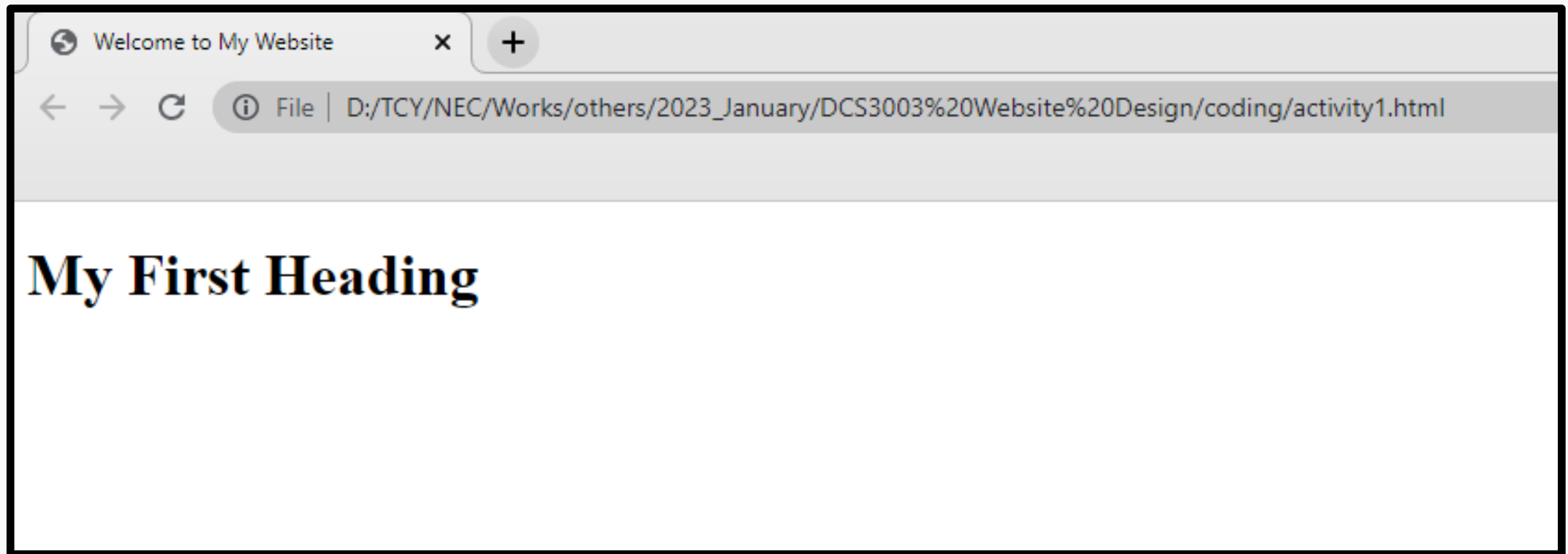
2) Save it as activity1.html in DCS3003\coding folder

HTML – **Activity 1**

3) Open activity1.html in your favourite browser
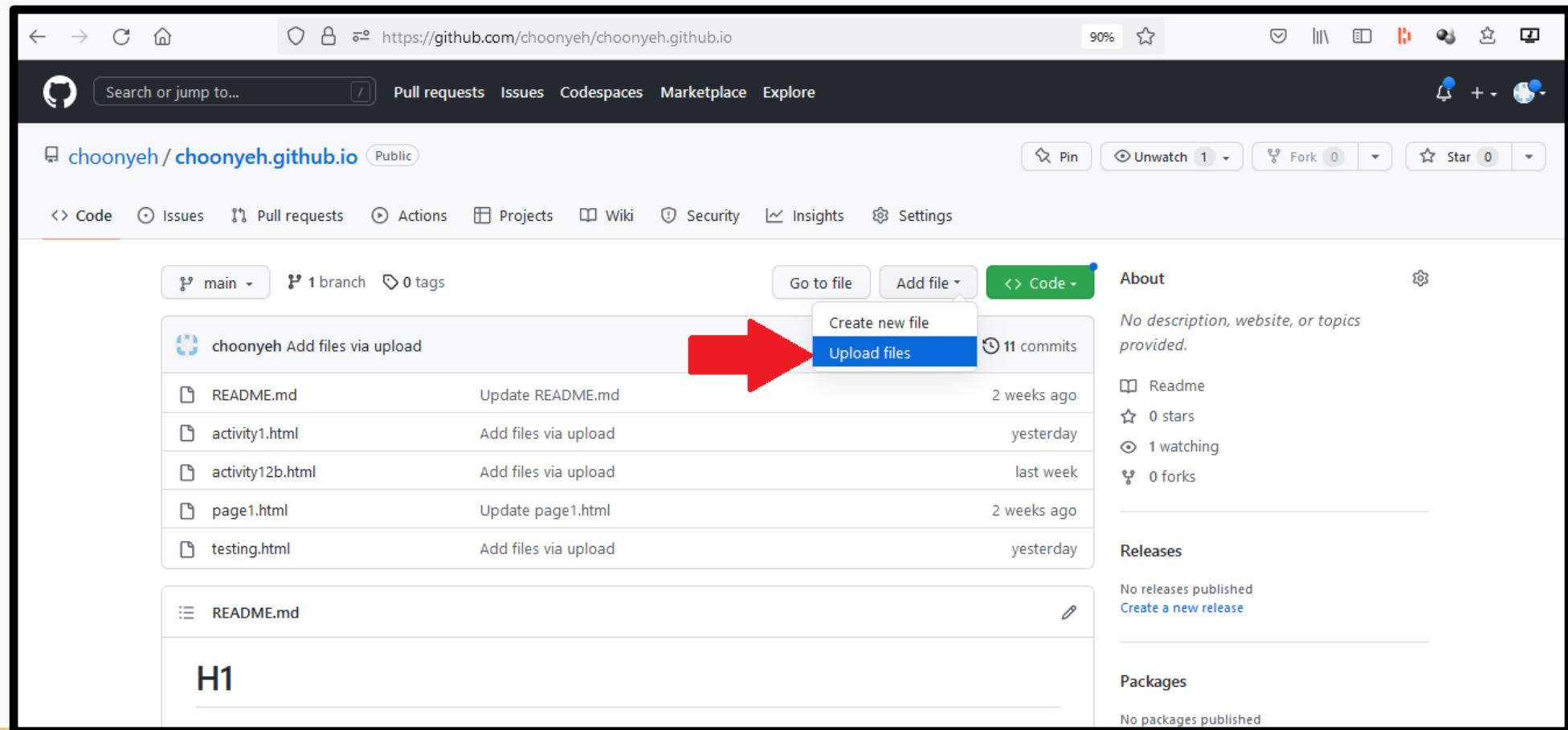
HTML – **Activity 1**
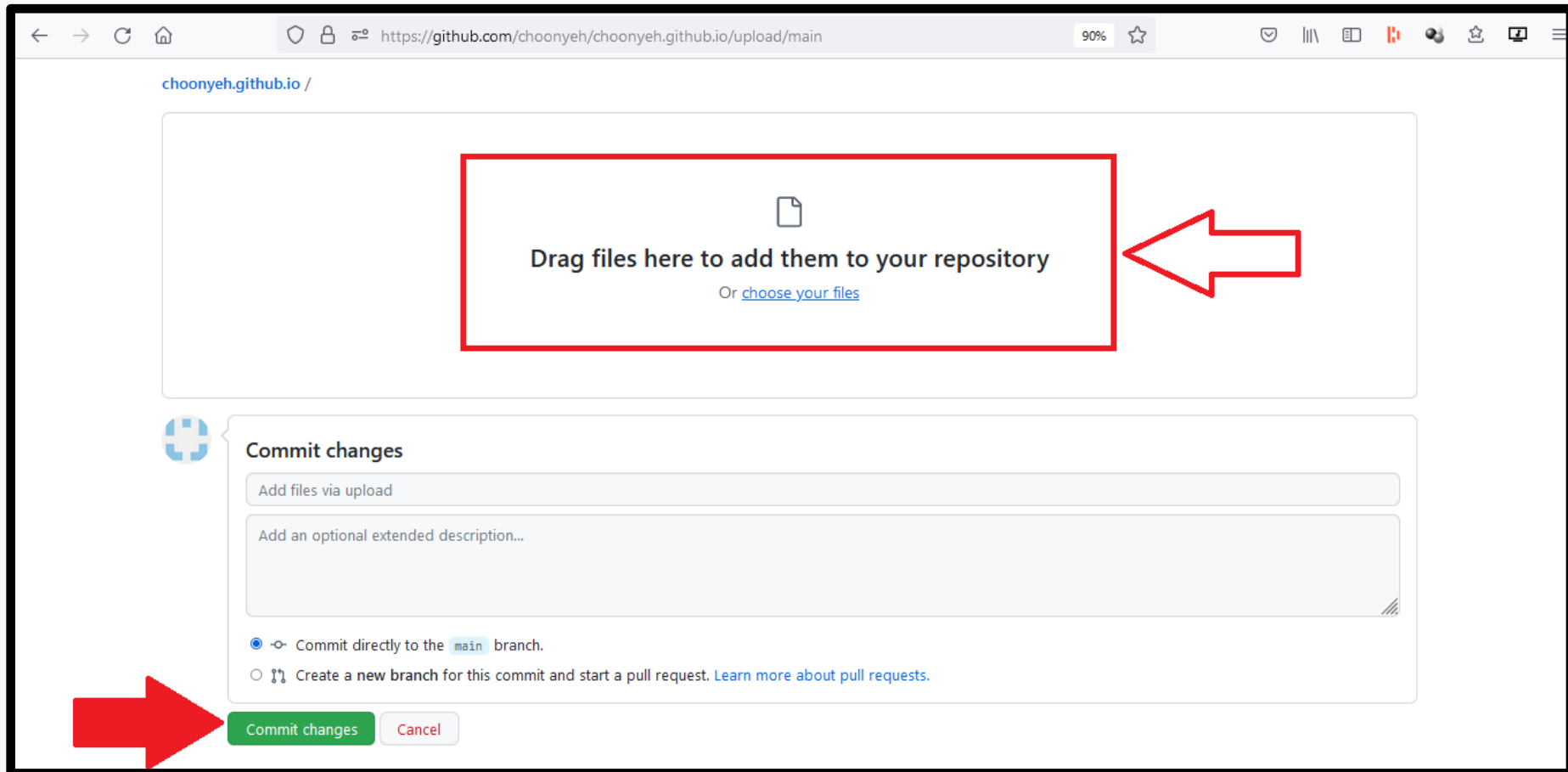
3) Open activity1.html in your favourite browser

HTML – **Activity 1**

Upload activity1.html to Github – Step 1

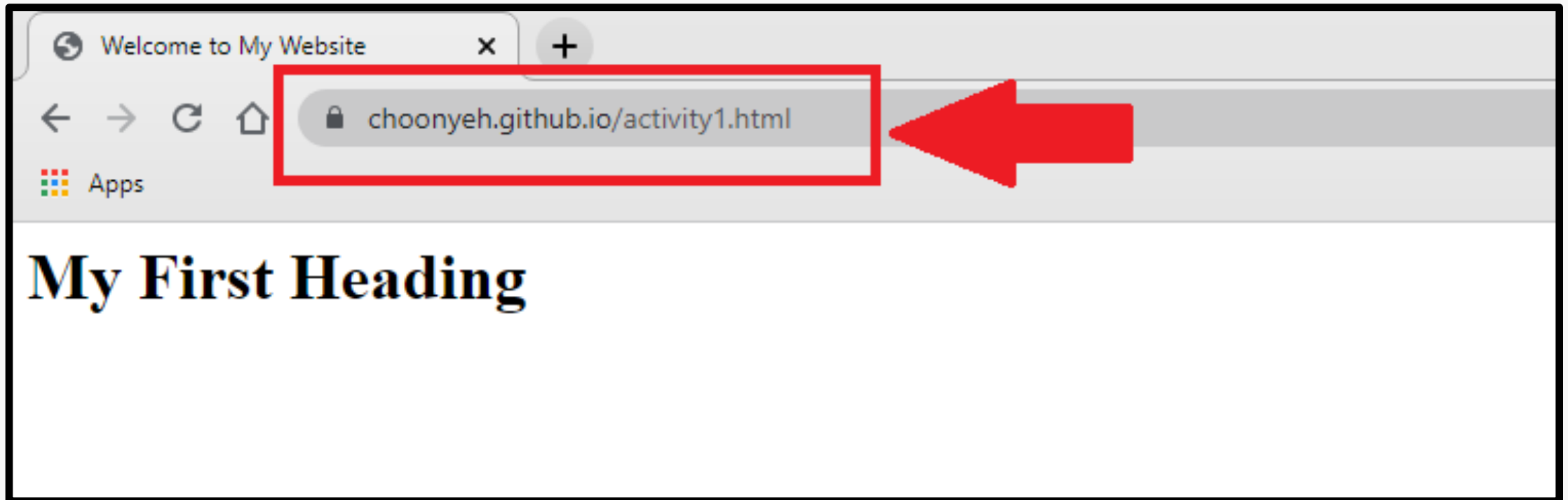# HTML – **Activity 1**

Upload activity1.html to Github – Step 2

HTML – **Activity 1**

Upload activity1.html to Github – Step 3

HTML – Activity 2

```
<html>
<head>
<title>Welcome to My Website</title>
</head>
<body>
<h1> My First Heading</h1>
<p>My first paragraph.</p>
<p style="color:red;">My first paragraph.</p>
</body>
</html>
```
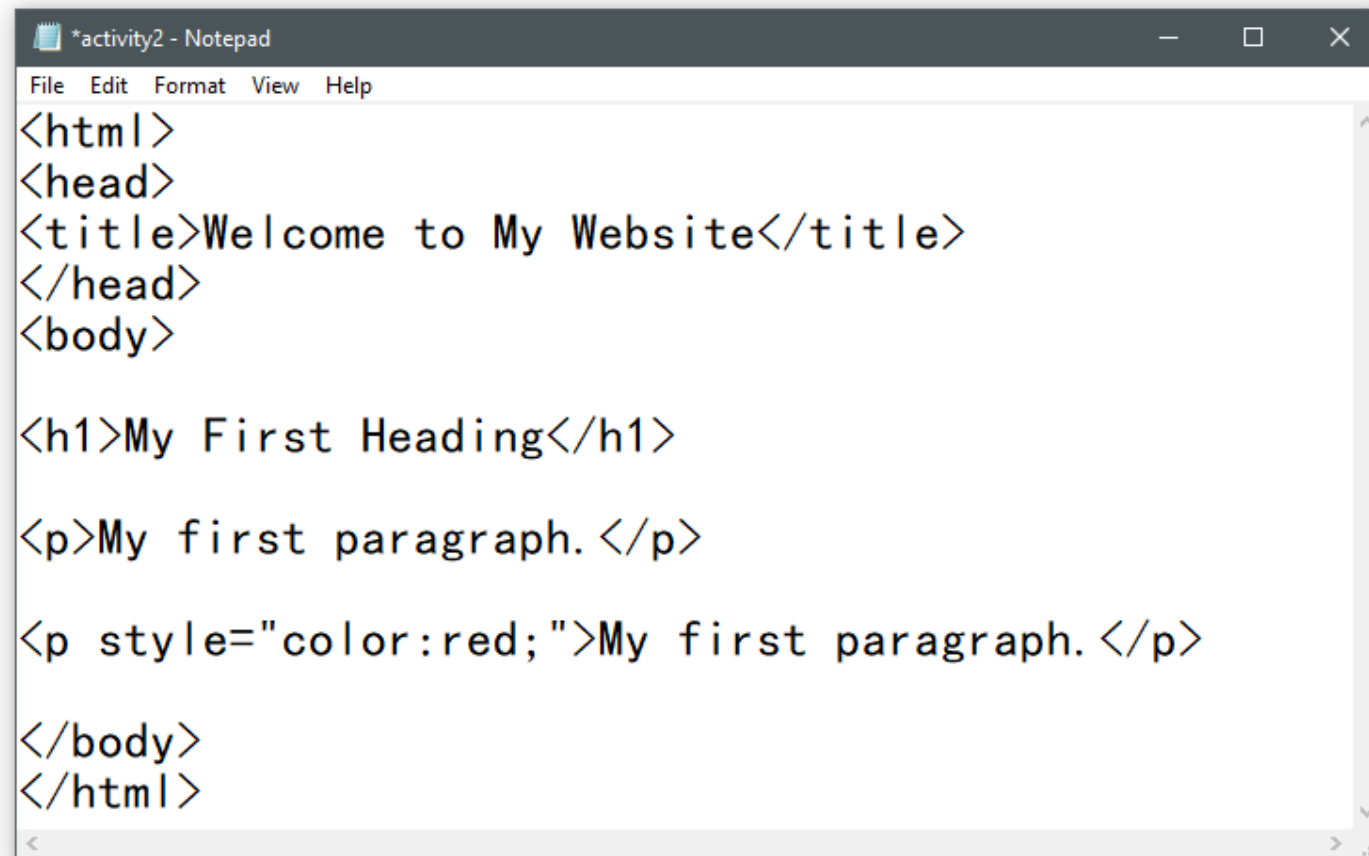
HTML – **Activity 2**

1) Type the html code into Notepad

2) Save it as activity2.html in DCS3003\coding folder

3) Open activity2.html in your favourite browser

HTML – **Activity 2**

1) Type the html code into Notepad


```
*activity2 - Notepad                                          —    □    ×
File  Edit  Format  View  Help
<html>
<head>
<title>Welcome to My Website</title>
</head>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

<p style="color:red;">My first paragraph.</p>

</body>
</html>
```
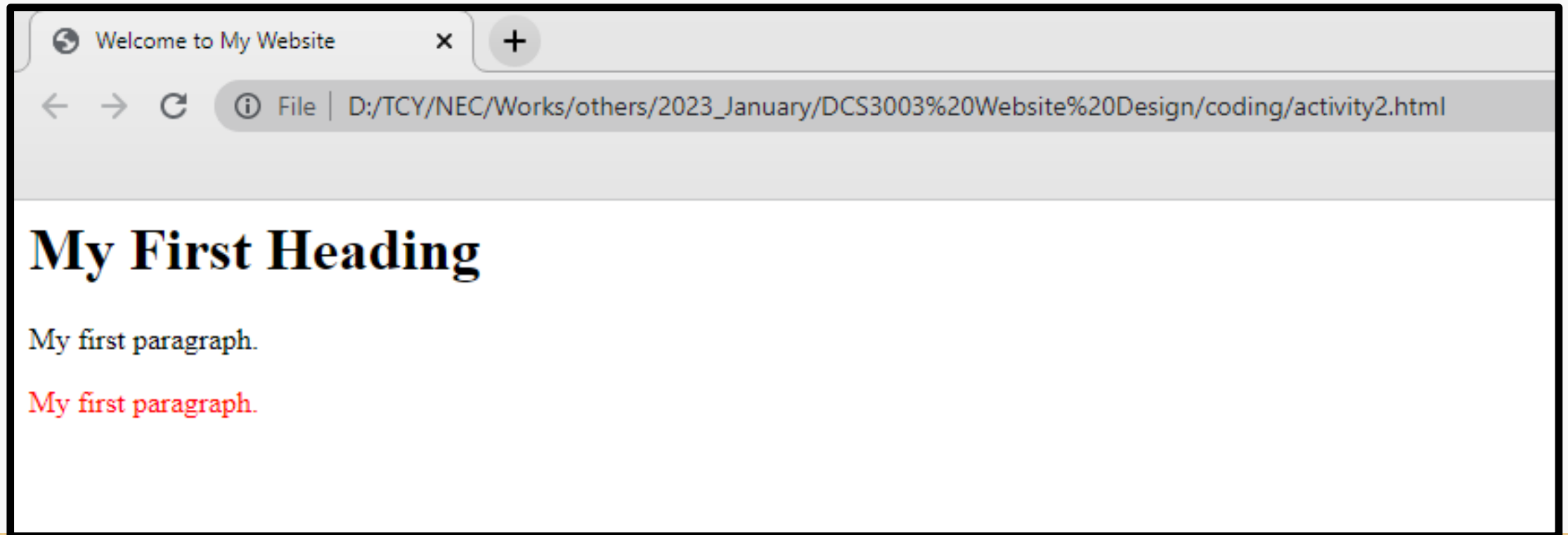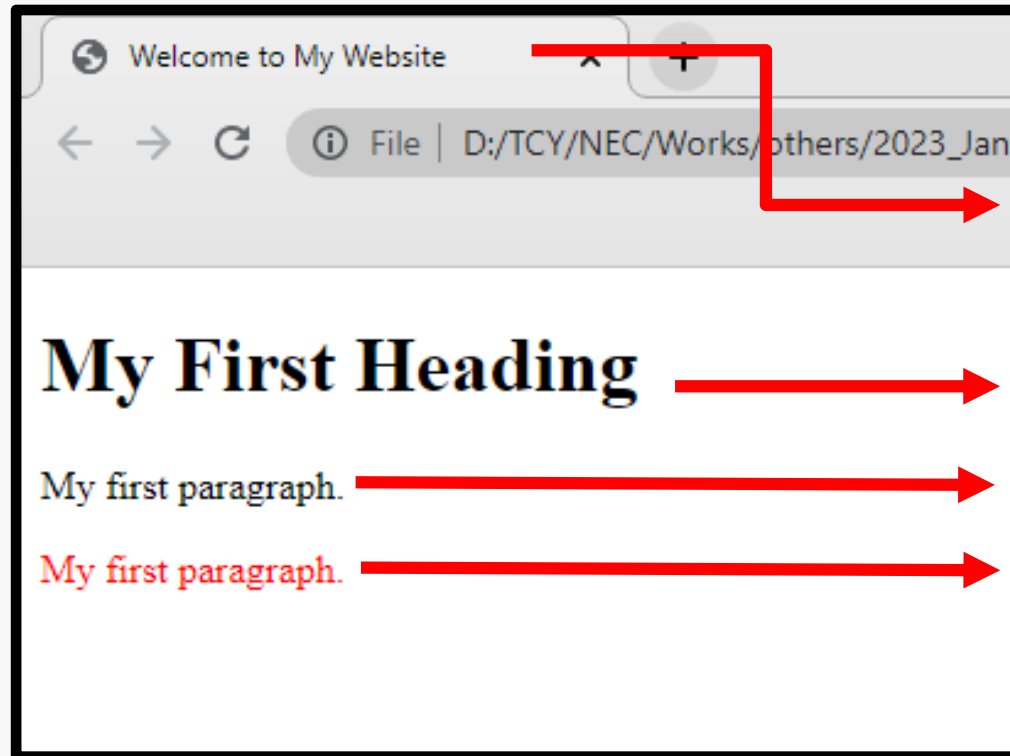
HTML – **Activity 2**

2) Save it as activity2.html in DCS3003\coding folder

3) Open activity2.html in your favourite browser

HTML – Activity 2

3) Open activity2.html in your favourite browser

HTML – Activity 2b (Elements can have attributes)

`<p>My first paragraph.</p>`

`<p style="background-color:blue;">My first paragraph.</p>`

`<p style="color:red;">My first paragraph.</p>`

`<p style="font-family:arial;">My first paragraph.</p>`

`<p style="font-size:200%;">My first paragraph.</p>`

`<p style="text-align:center;">My first paragraph.</p>`

HTML – **Activity 2b**

1) Type the html code into Notepad

```
activity2b - Notepad

File  Edit  Format  View  Help

<html>
<head><title>Welcome to My Website</title></head>
<body>
<h1>My First Heading</h1>
<p>My first paragraph. </p>

<p style="background-color:blue;">My first paragraph. </p>
<p style="color:red;">My first paragraph. </p>
<p style="font-family:arial;">My first paragraph. </p>
<p style="font-size:200%;">My first paragraph. </p>
<p style="text-align:center;">My first paragraph. </p>

</body>
</html>
```

HTML – **Activity 2b**

2) Save it as activity2b.html in DCS3003\coding folder

3) Open activity2b.html in your favourite browser

HTML – Activity 2 (Extra)

```
<p style="background-color:blue;">My first paragraph.</p>
<p style="color:red;">My first paragraph.</p>
<p style="font-family:arial;">My first paragraph.</p>
<p style="font-size:200%;">My first paragraph.</p>
<p style="text-align:center;">My first paragraph.</p>
```
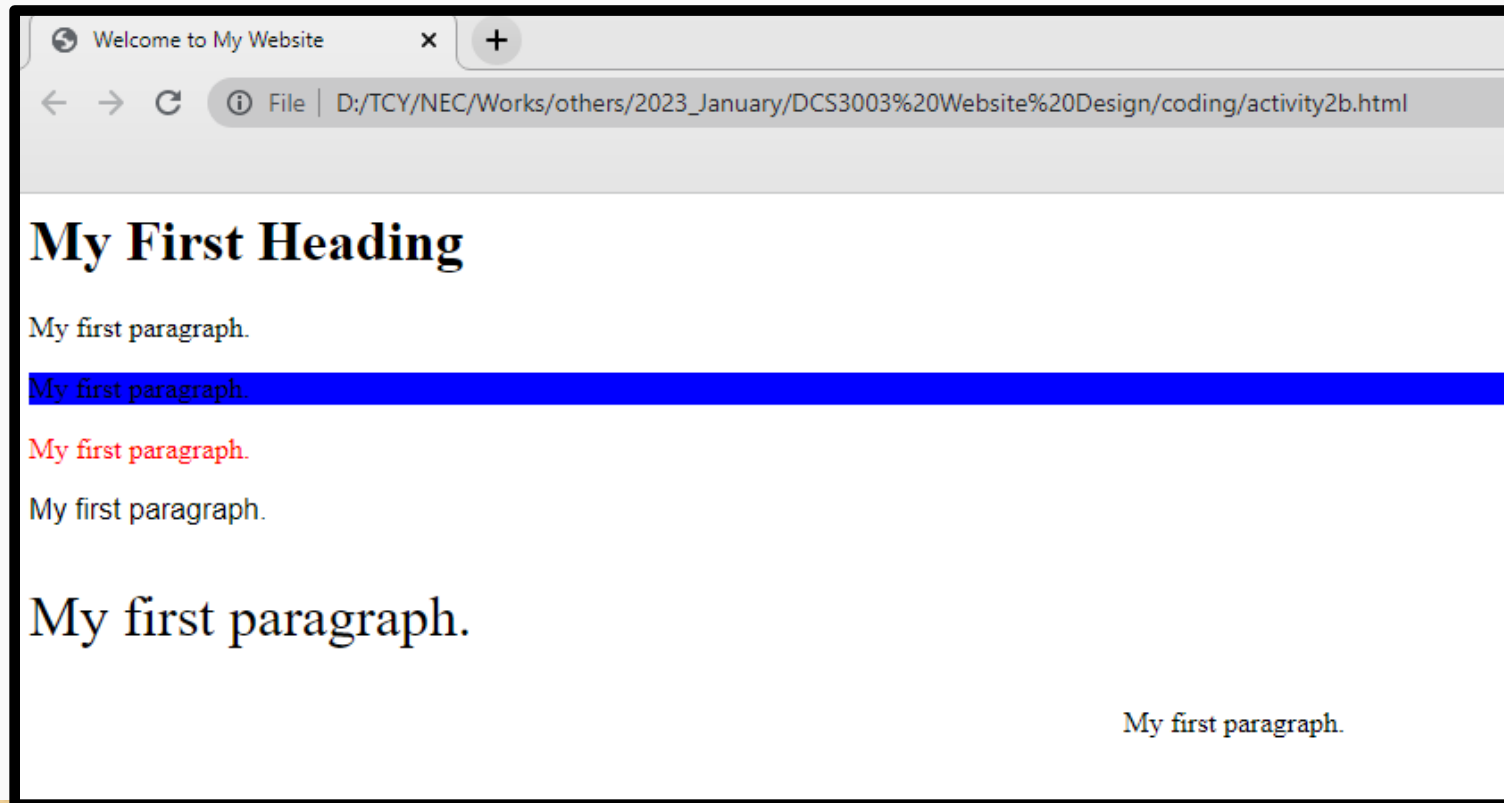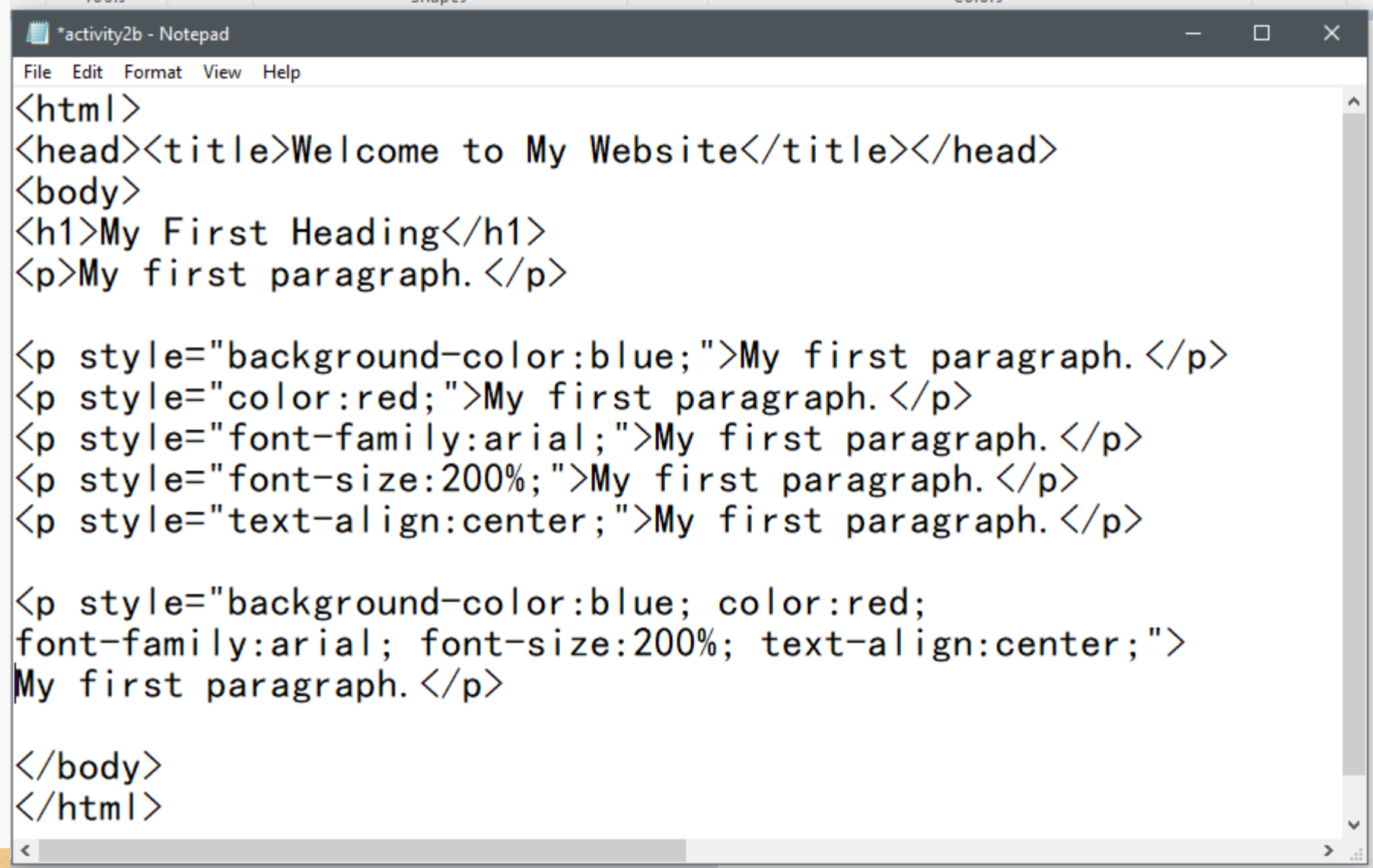
```
<p style="background-color:blue; color:red; font-family:arial;
font-size:200%; text-align:center;">My first paragraph.</p>
```

HTML – **Activity2 (Extra)**

```
*activity2b - Notepad
File  Edit  Format  View  Help
<html>
<head><title>Welcome to My Website</title></head>
<body>
<h1>My First Heading</h1>
<p>My first paragraph. </p>

<p style="background-color:blue;">My first paragraph. </p>
<p style="color:red;">My first paragraph. </p>
<p style="font-family:arial;">My first paragraph. </p>
<p style="font-size:200%;">My first paragraph. </p>
<p style="text-align:center;">My first paragraph. </p>

<p style="background-color:blue; color:red;
font-family:arial; font-size:200%; text-align:center;">
My first paragraph. </p>

</body>
</html>
```

HTML – **Activity2 (Extra)**

HTML

Text Formatting Tags

HTML

Heading Tags

HTML – **Heading Tags**

1) Heading tags display text in larger font than the normal body text.

2) When heading tags are used, a blank line is automatically added before and after the heading.

HTML – **Heading Tags**

1) There are six heading elements:

-> <H1>,<H2>,<H3>,<H4>, <H5>,<H6>

2) All the six heading elements are container tag and requires a closing tag.

3) <h1> will print the largest heading

4) <h6> will print the smallest heading

HTML – **Heading Tags**

The heading tags have just one attribute called align.
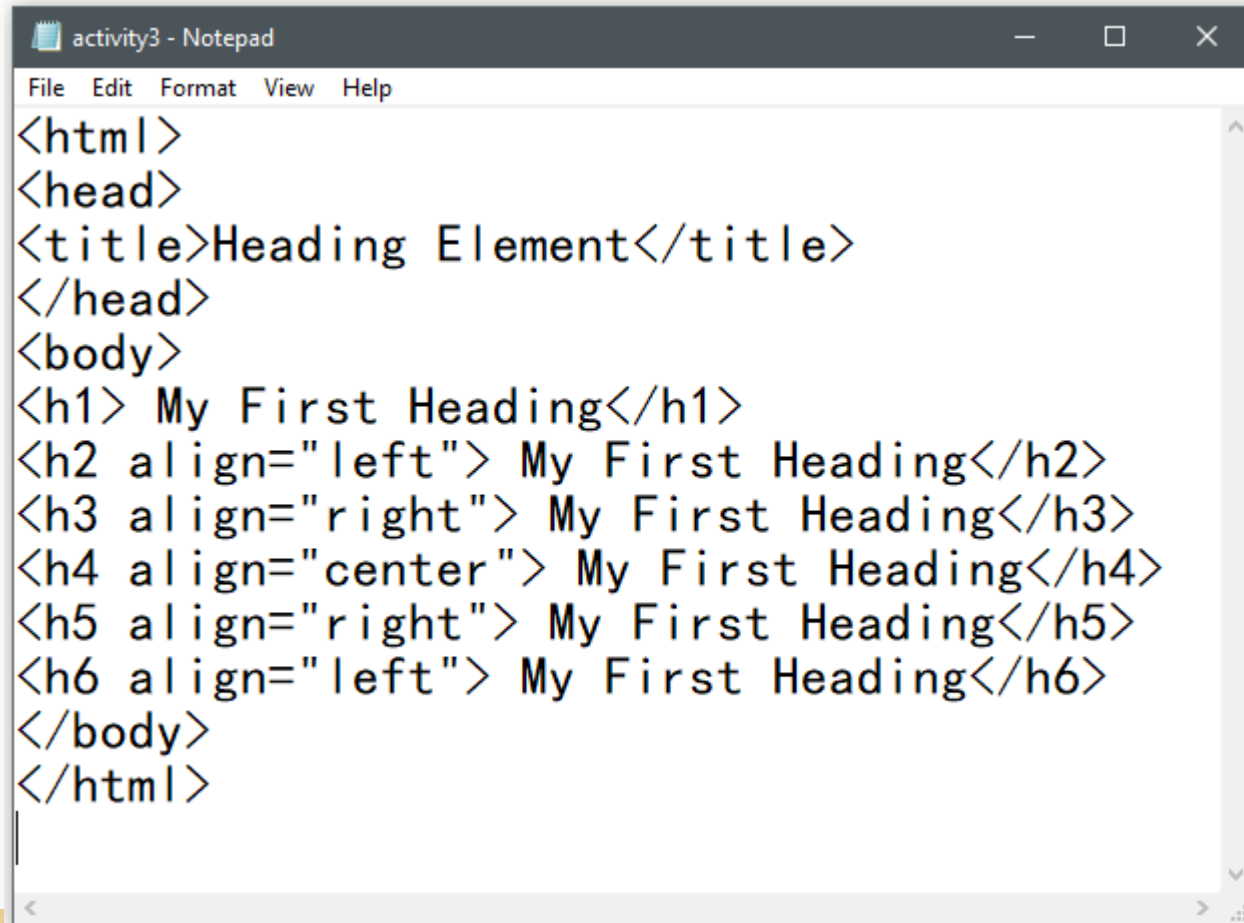
Attribute	Description	Example
Align	To specify the placement of the heading text with respect to margins. The values that can be specified are: ➢Left ➢Right ➢Center	\<h**n** align=center\> where **n stands for number between 1 to 6**.

HTML – **Activity 3**

```
<html>
<head>
<title>Heading Element</title>
</head>
<body>
<h1> My First Heading</h1>
<h2 align="left"> My First Heading</h2>
<h3 align="right"> My First Heading</h3>
<h4 align="center"> My First Heading</h4>
<h5 align="right"> My First Heading</h5>
<h6 align="left"> My First Heading</h6>
</body>
</html>
```

HTML – Activity 3

1) Type the html code into Notepad

```
activity3 - Notepad
File  Edit  Format  View  Help
<html>
<head>
<title>Heading Element</title>
</head>
<body>
<h1> My First Heading</h1>
<h2 align="left"> My First Heading</h2>
<h3 align="right"> My First Heading</h3>
<h4 align="center"> My First Heading</h4>
<h5 align="right"> My First Heading</h5>
<h6 align="left"> My First Heading</h6>
</body>
</html>
```
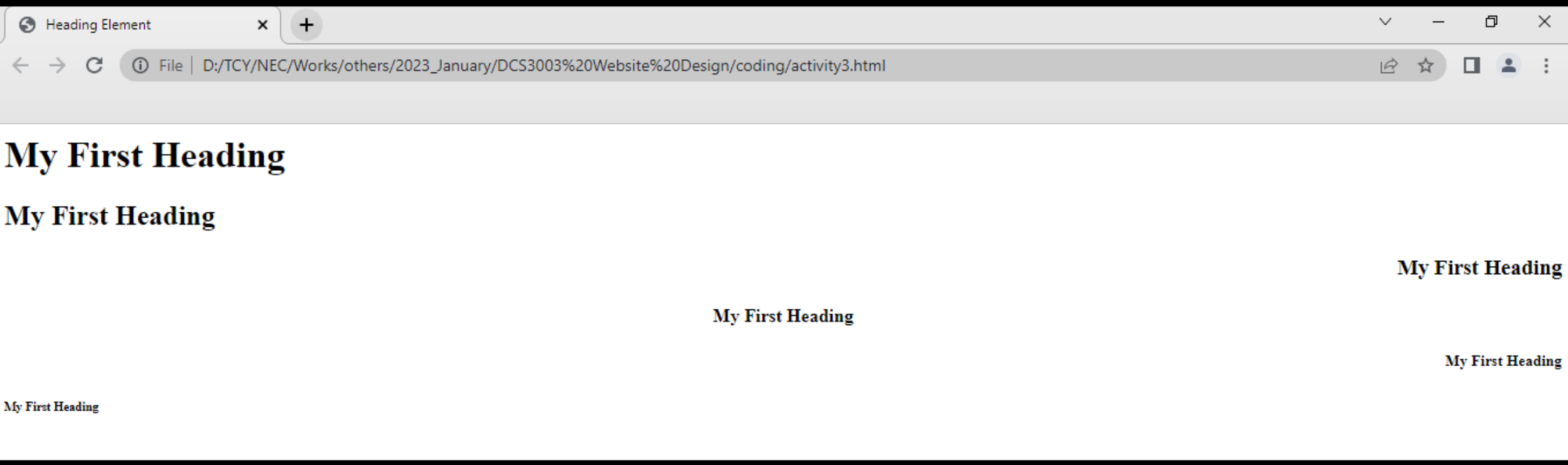
HTML – **Activity 3**

2) Save it as activity3.html in DCS3003\coding folder

3) Open activity3.html in your favourite browser

HTML

Paragraph Tag

HTML – **Paragraph Tag**

1) The Paragraph <P> tag marks the beginning of a paragraph.

2) It is a container tag.

3) When a text is included within the opening and closing <P> tag, a blank line is inserted before and after the enclosed text.

HTML – **Activity 2b (Elements can have attributes)**

```
<p>My first paragraph.</p>

<p style="background-color:blue;">My first paragraph.</p>

<p style="color:red;">My first paragraph.</p>

<p style="font-family:arial;">My first paragraph.</p>

<p style="font-size:200%;">My first paragraph.</p>

<p style="text-align:center;">My first paragraph.</p>
```
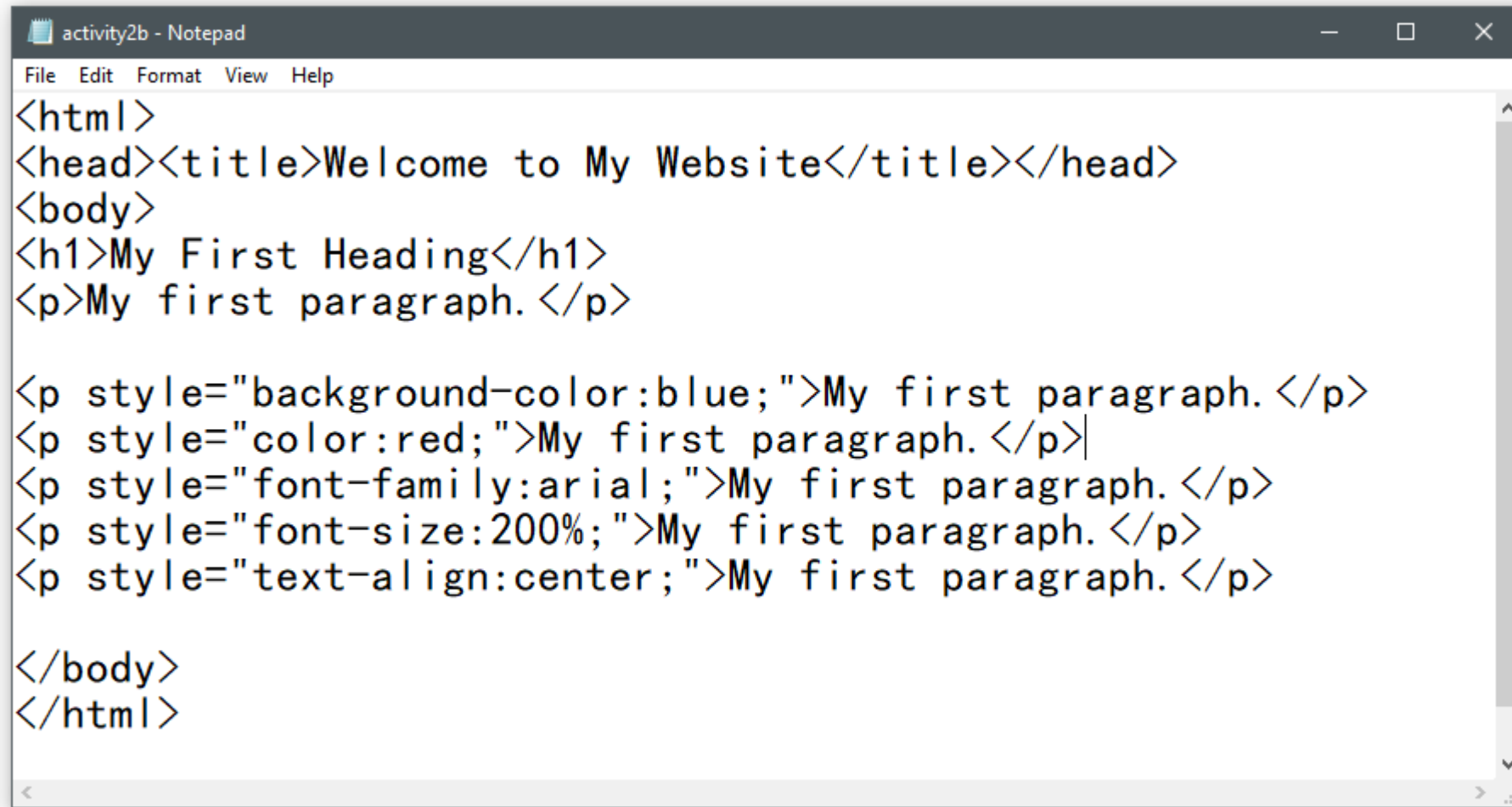
HTML – Activity 2b

activity2b - Notepad

File   Edit   Format   View   Help

```
<html>
<head><title>Welcome to My Website</title></head>
<body>
<h1>My First Heading</h1>
<p>My first paragraph. </p>

<p style="background-color:blue;">My first paragraph. </p>
<p style="color:red;">My first paragraph. </p>
<p style="font-family:arial;">My first paragraph. </p>
<p style="font-size:200%;">My first paragraph. </p>
<p style="text-align:center;">My first paragraph. </p>

</body>
</html>
```

HTML – Activity 2b

2) Save it as activity2b.html in DCS3003\coding folder

3) Open activity2b.html in your favourite browser

HTML – **Activity 2 (Extra)**

```
<p style="background-color:blue;">My first paragraph.</p>
<p style="color:red;">My first paragraph.</p>
<p style="font-family:arial;">My first paragraph.</p>
<p style="font-size:200%;">My first paragraph.</p>
<p style="text-align:center;">My first paragraph.</p>
```
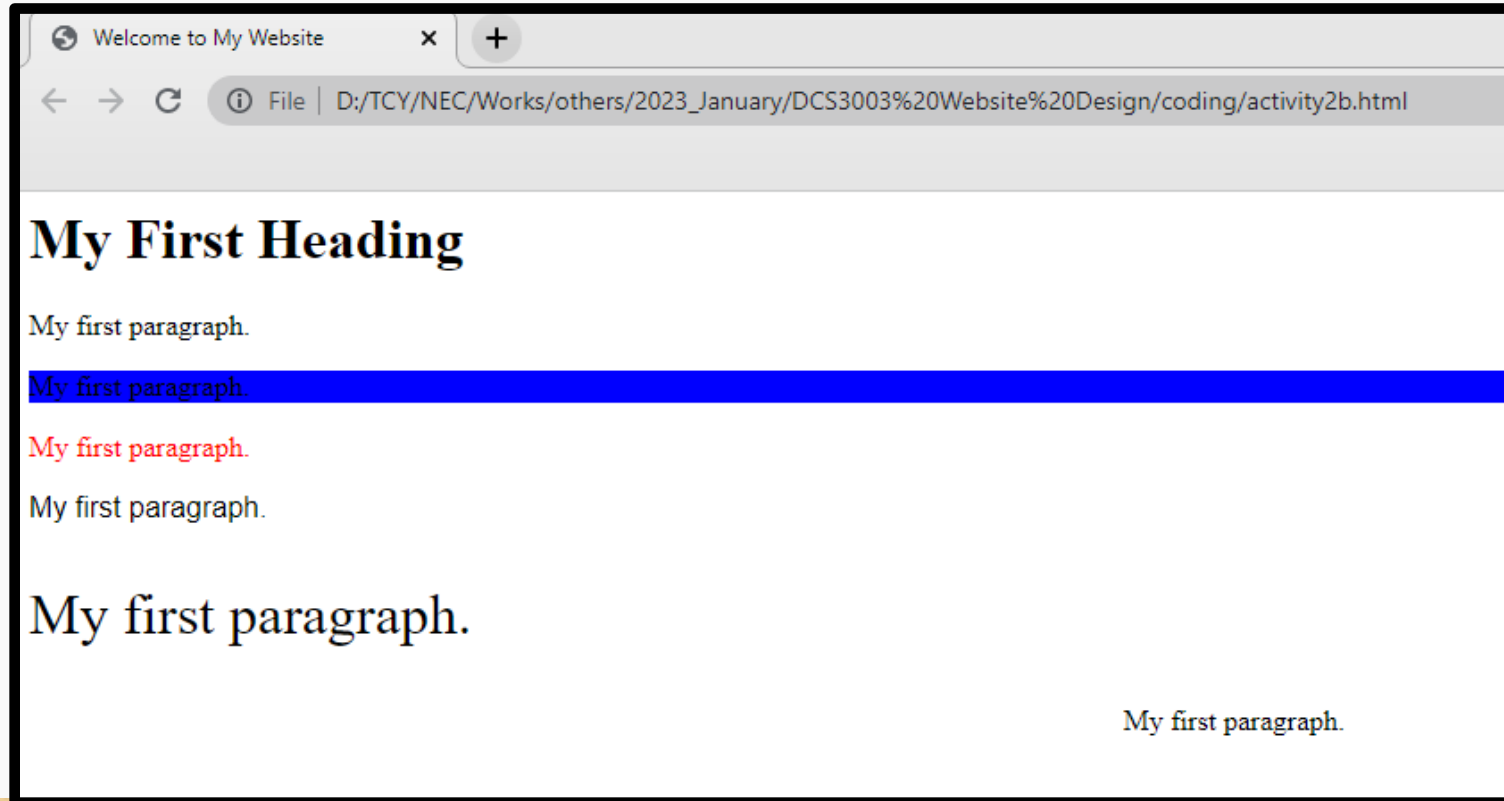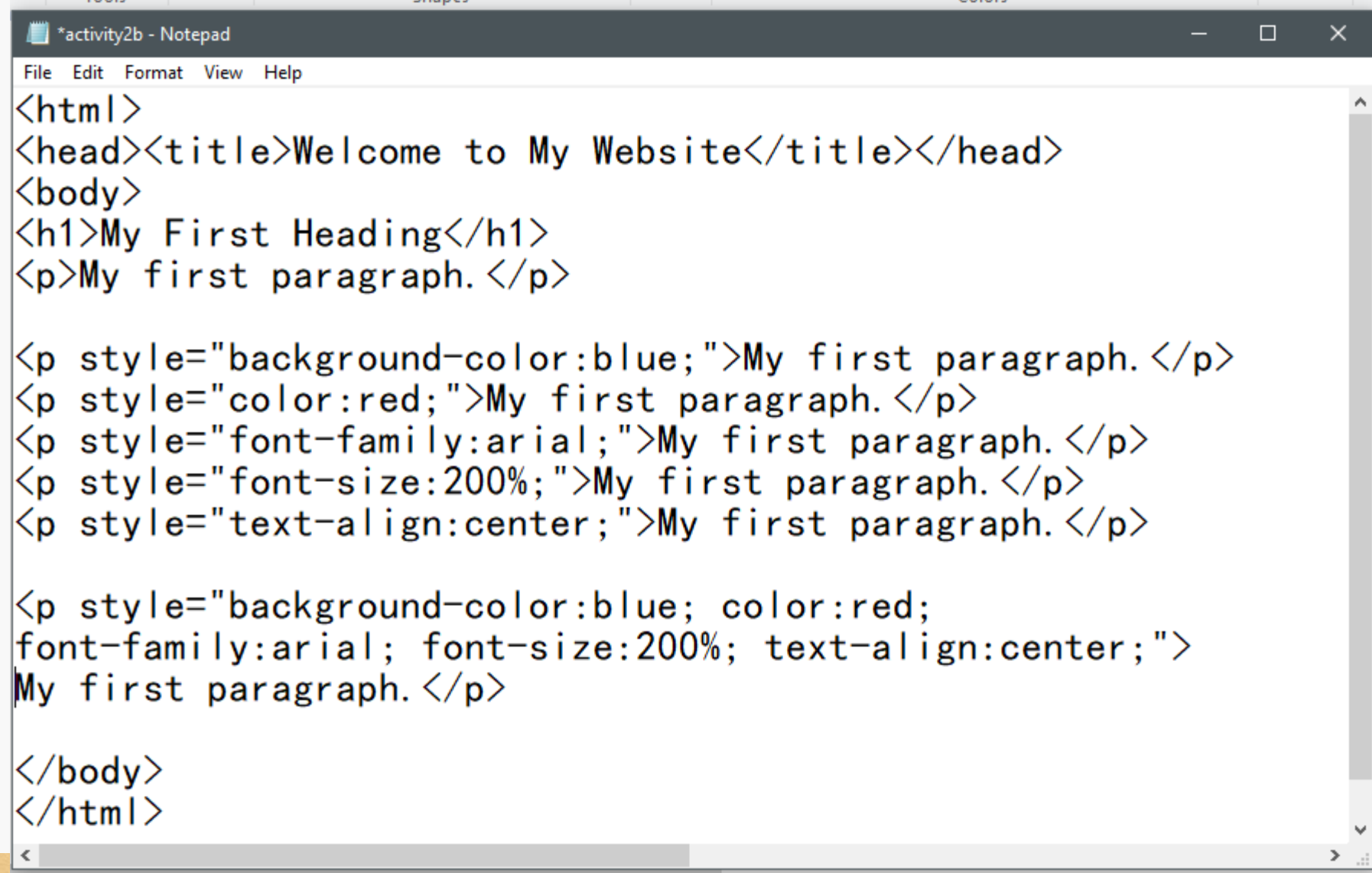
⬇

```
<p style="background-color:blue; color:red; font-family:arial; font-size:200%; text-align:center;">My first paragraph.</p>
```

HTML – **Activity2 (Extra)**

```
*activity2b - Notepad
File   Edit   Format   View   Help
<html>
<head><title>Welcome to My Website</title></head>
<body>
<h1>My First Heading</h1>
<p>My first paragraph. </p>

<p style="background-color:blue;">My first paragraph. </p>
<p style="color:red;">My first paragraph. </p>
<p style="font-family:arial;">My first paragraph. </p>
<p style="font-size:200%;">My first paragraph. </p>
<p style="text-align:center;">My first paragraph. </p>

<p style="background-color:blue; color:red;
font-family:arial; font-size:200%; text-align:center;">
My first paragraph. </p>

</body>
</html>
```

HTML – **Activity2 (Extra)**

HTML – **Paragraph Tag**

Attribute	Description	Example
Align	To specify the placement of the text enclosed within the <P> tag with respect to margins. The values that can be specified are: ➤Left ➤Right ➤Center	<P align=center>

HTML – **Activity 4**
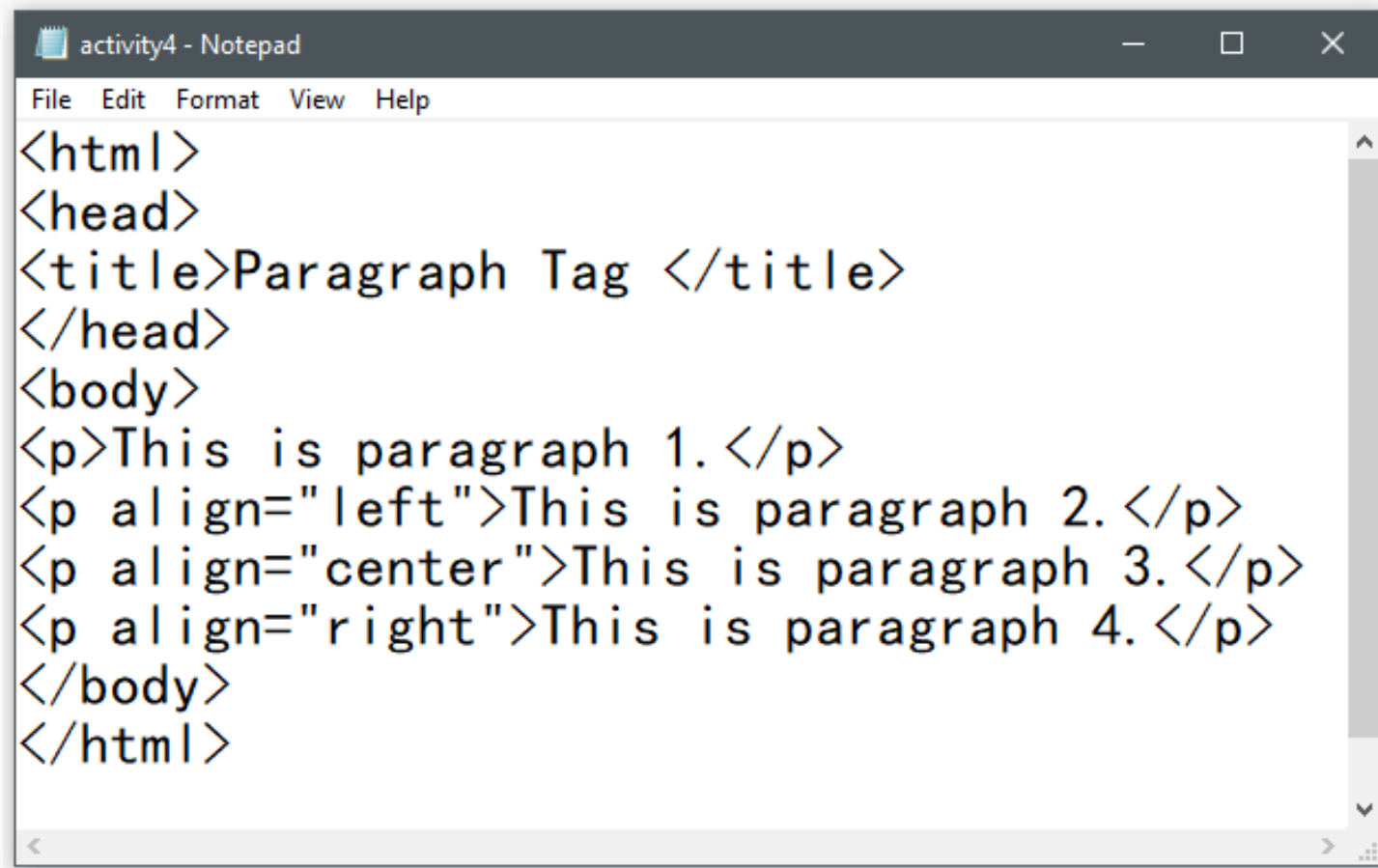
```
<html>
<head>
<title>Paragraph Tag </title>
</head>
<body>
<p>This is paragraph 1.</p>
<p align="left">This is paragraph 2.</p>
<p align="center">This is paragraph 3.</p>
<p align="right">This is paragraph 4.</p>
</body>
</html>
```

HTML – **Activity 4**

1) Type the html code into Notepad

```
<html>
<head>
<title>Paragraph Tag </title>
</head>
<body>
<p>This is paragraph 1.</p>
<p align="left">This is paragraph 2.</p>
<p align="center">This is paragraph 3.</p>
<p align="right">This is paragraph 4.</p>
</body>
</html>
```

HTML – **Activity 4**

2) Save it as activity4.html in DCS3003\coding folder

3) Open activity4.html in your favourite browser

HTML

Line Break & Horizontal Line & Center

HTML – **Line Break**

1) The browser does not recognize any line breaks given using the Enter key in the HTML code.

2) Defines a line break or a new line without starting a new paragraph

    -> use the <br> tag

3) It is an **empty tag**. It **does not have any attributes**.

HTML – **Horizontal Line**

1) Defines a horizontal line -> use<hr>tag

2) This tag inserts a straight horizontal line across the web page.

3) By default, horizontal line appears shaded and spans the width of the browser window.

HTML – **Horizontal Line**
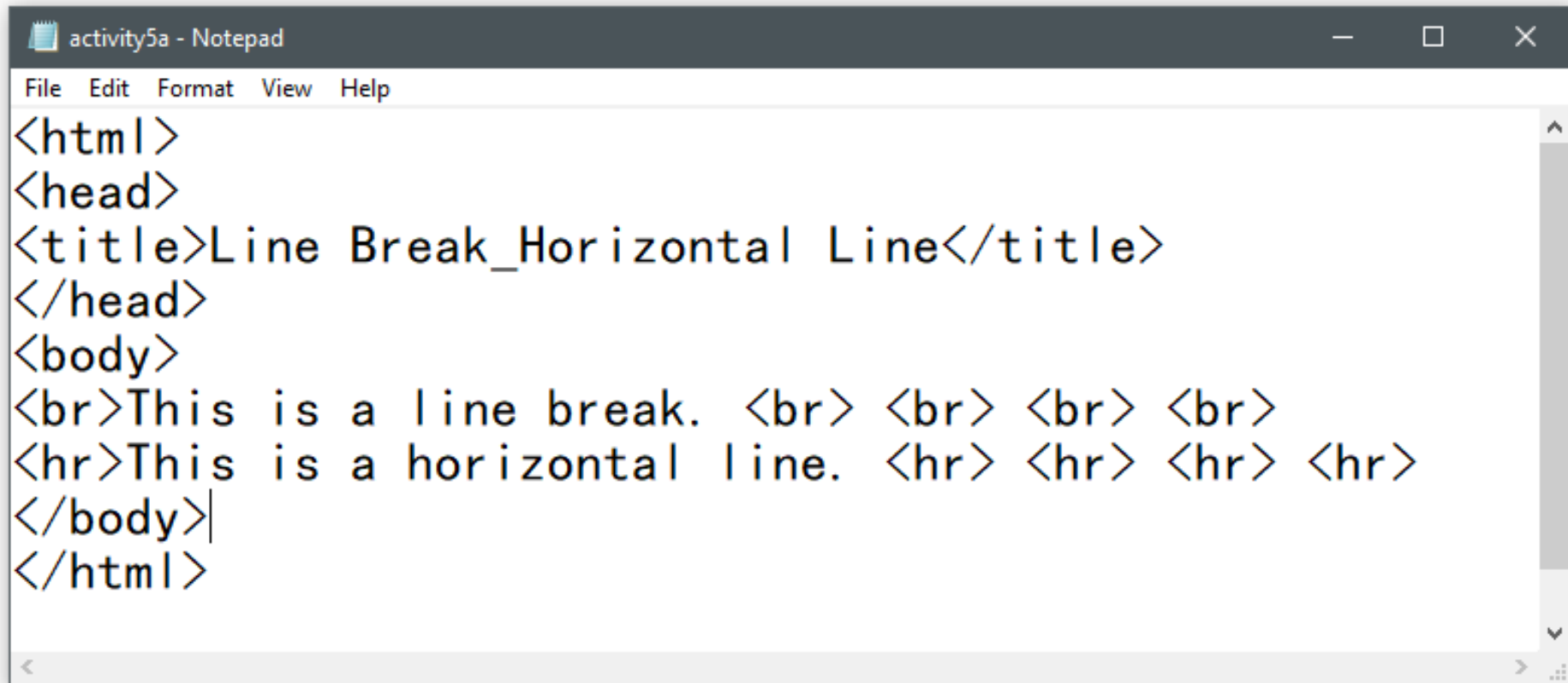
Attribute	Description	Example
Size	To specify the vertical size or thickness of the horizontal line. The value is given in pixels.	<hr size=5>
Width	To specify the length of the horizontal line. The value can be given in pixels or in percentage of page width.	<hr width=500> OR <hr width=70%>
Align	To specify the placement of the text enclosed within the <P> tag with respect to margins. The values that can be specified are: ➢ Left ➢ Right ➢ Center	<hr align=center>
Noshade	To specify that the horizontal line should appear as a solid stripe across the page, rather than a shaded stripe.	<hr noshade>
Color	To specify the color of the horizontal line.	<hr color=blue>

HTML – Activity 5a

```
<html>
<head>
<title>Line Break_Horizontal Line</title>
</head>
<body>
<br>This is a line break. <br> <br> <br> <br>
<hr>This is a horizontal line. <hr> <hr> <hr> <hr>
</body>
</html>
```

HTML – **Activity 5a**

1) Type the html code into Notepad

HTML – **Activity 5a**

2) Save it as activity5a.html in DCS3003\coding folder

3) Open activity5a.html in your favourite browser

HTML – **Activity 5b**

```
<html><head><title>Line Break_Horizontal Line</title></head>
<body>
<br>This is a line break. <br><br>
<hr>This is a horizontal line 1.
<hr size="5" color="red">This is a horizontal line 2.
<hr noshade size="5" color="green">This is a horizontal line 3.
<hr size="5" color= " blue" >This is a horizontal line 4.
<hr size="5" color= " orange" align= " center" width= " 50%"
>This is a horizontal line 5.
</body></html>
```

HTML – Activity 5b

1) Type the html code into Notepad

```
activity5b - Notepad
File  Edit  Format  View  Help
<html>
<head>
<title>Line Break_Horizontal Line</title>
</head>
<body>
<br>This is a line break. <br><br>
<hr>This is a horizontal line 1.
<hr size="5" color="red">This is a horizontal line 2.
<hr noshade size="5" color="green">This is a horizontal line 3.
<hr size="5" color= " blue" >This is a horizontal line 4.
<hr size="5" color= " orange" align= " center" width= " 50%" >This is a horizontal line 5.
</body>
</html>
```
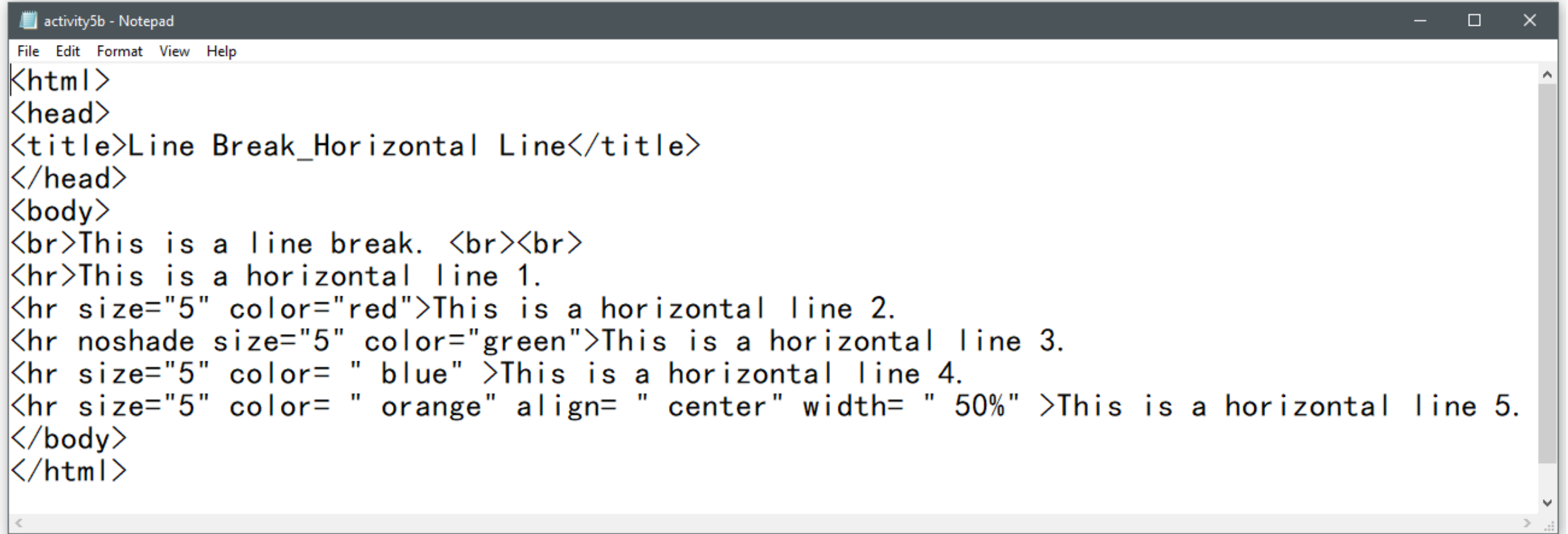
HTML – **Activity 5b**

2) Save it as activity5b.html in DCS3003\coding folder

3) Open activity5b.html in your favourite browser

HTML – **Center**

1) The <CENTER> tag is a container tag.

2) To align the text in the centre of the browser window using the opening and the closing <CENTER> tags.

HTML – **Activity 5c**

<html><head><title>Line Break_Horizontal Line</title></head>
<body>
<center>

This is a line break. **

**
<hr>This is a horizontal line 1. **

**
<hr size="5" color="red">This is a horizontal line 2. **

**
<hr noshade size="5" color="green">This is a horizontal line 3. **

**
<hr size="5" color= " blue" >This is a horizontal line 4. **
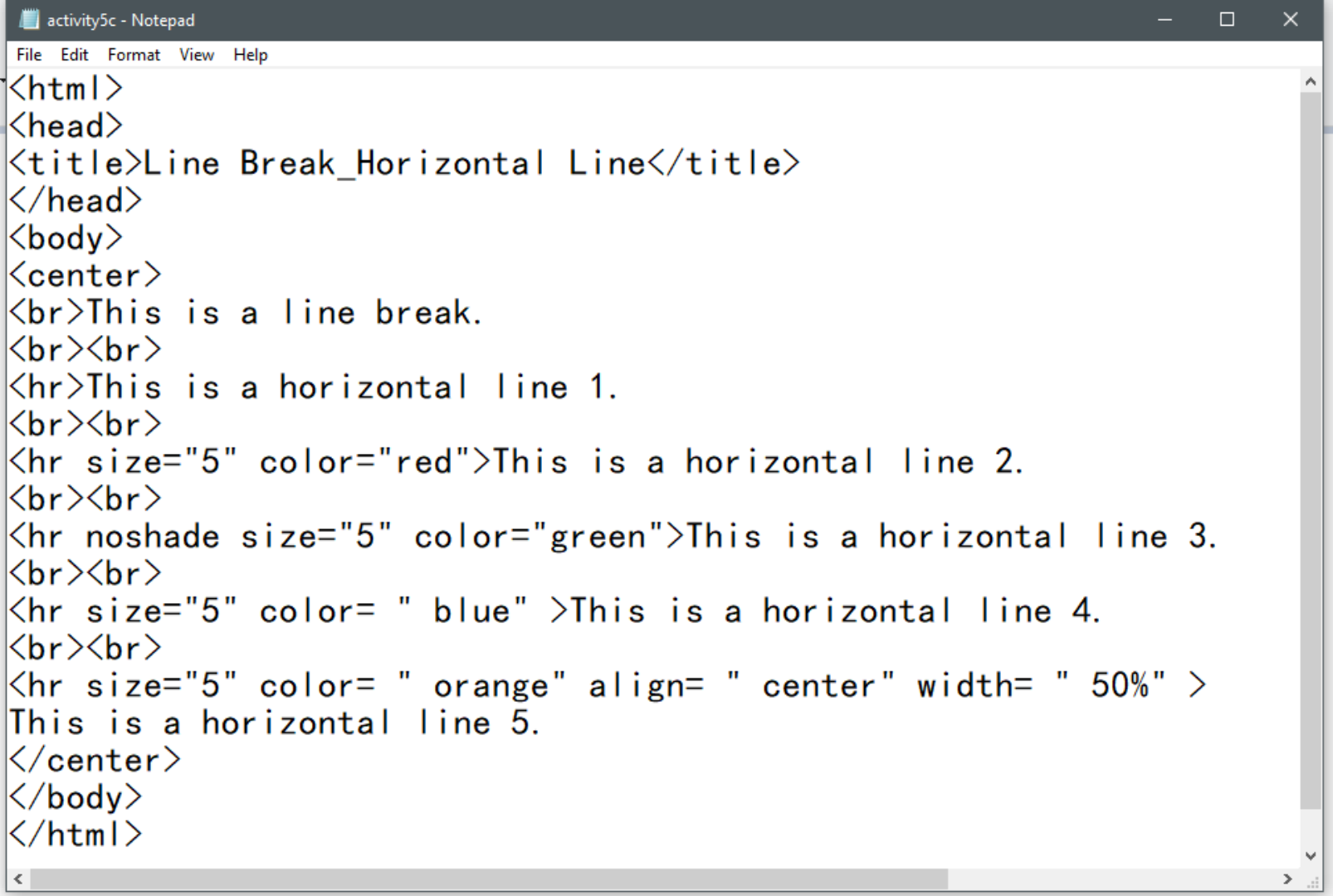
**
<hr size="5" color= " orange" align= " center" width= " 50%" >
This is a horizontal line 5.
</center>
</body></html>

HTML – **Activity 5c**

1) Type the

html code

into Notepad.

```
activity5c - Notepad

File   Edit   Format   View   Help

<html>
<head>
<title>Line Break_Horizontal Line</title>
</head>
<body>
<center>
<br>This is a line break.
<br><br>
<hr>This is a horizontal line 1.
<br><br>
<hr size="5" color="red">This is a horizontal line 2.
<br><br>
<hr noshade size="5" color="green">This is a horizontal line 3.
<br><br>
<hr size="5" color= " blue" >This is a horizontal line 4.
<br><br>
<hr size="5" color= " orange" align= " center" width= " 50%" >
This is a horizontal line 5.
</center>
</body>
</html>
```
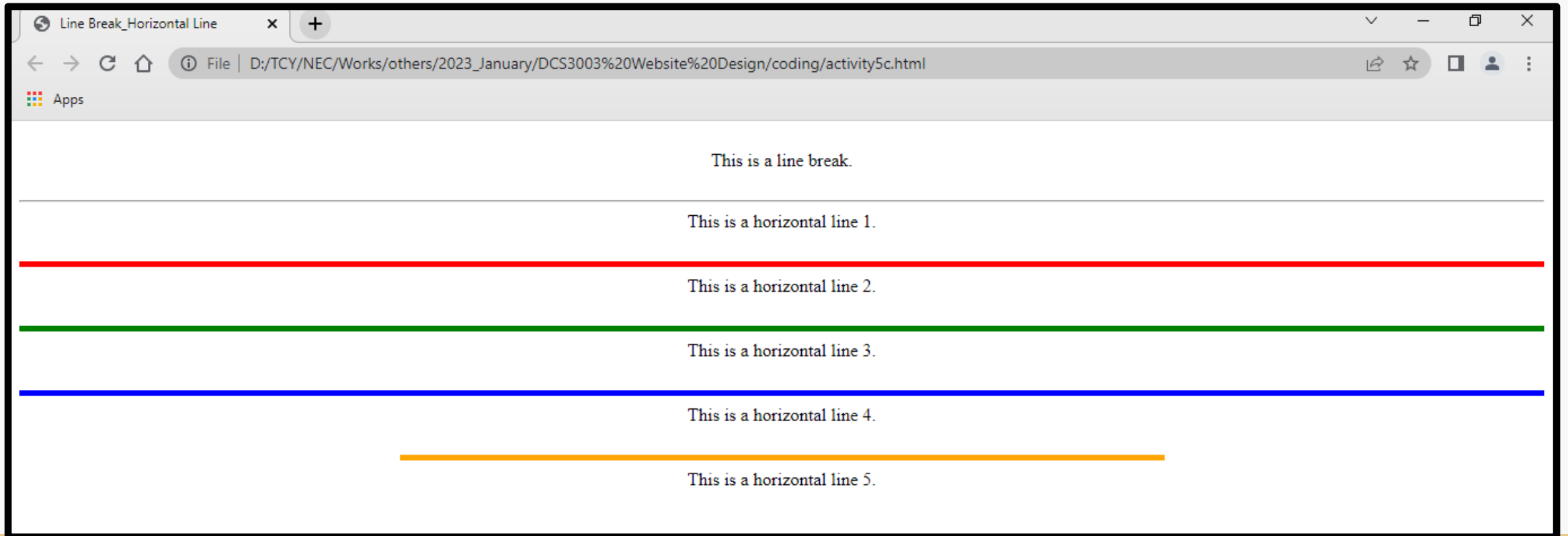
HTML – **Activity 5c**

2) Save it as activity5c.html in DCS3003\coding folder

3) Open activity5c.html in your favourite browser

```html
<html>
<head>
<title>Welcome to My Website</title>
</head>
<body>

<p style="background-color:red;display:inline;
font-family:calibri;font-size:200%;text-align:left;">
Activity Lesson 3</p> <br><br>

<hr size="5"color="cornflowerblue"> <br><br>

<p style="background-color:yellow;display:inline;
font-family:calibri;font-size:200%;text-align:left;">
Short Story:

<p style="background-color:cyan;display:inline;
font-family:calibri;font-size:150%;text-align:left;">
A Good Meal <br><br> </p|)

<p>The children were <p1 style="font-family:forte;">hungry</p1>.They looked out the window. Where was their mother? She walked into the house.
The children ran over to her. "Mama we're so <p1 style="font-family:forte;">hungry</p1>," they both said.</p>

<p>She said lunch was coming. She walked into the kitchen. She opened a can of chicken soup. She poured the soup into a pot. She added water.
She put the pot on the stove. She made two peanut butter and jelly sandwiches. She sliced an apple. The soup was <p1 style="font-family:forte;">hot.</p1>

<p>She poured it into two bowls. She put the sandwiches on two plates. She put apple slices on each plate. She put the bowls and plates on the
table. The children ran to the table. "Thank you, mommy!" they said. Then they started eating. The cat and the dog watched them eat.</p>

<hr size="5"color="red"> <br>

<p><p1 style=font-family:algerian;font-size:150%;text-align:left;">OTHER STORIES:</p1> <p1 style="color:blue;">101 English short stories for
English learners from beginner to advanced level</p1></p>

</body>
</html>
```

Handwritten annotations (red):
- near `<head>`: Activity Lesson 3
- near `<body>`: topmargin=50 leftmargin=80 / style =" width: 95%; height: 48%;">
- line 8: width: 220px;">
- line 14: width: fit-content;"
- line 17: 100%
- line 18: width:fit-content;">
- line 20: style="font-family:calibri" align=jmstify> / font-size:130%;
- line 21:

- line 22:

- line 26: font-family:calibri; font size:9%; font-weight:bold;
- line 27: 120%