

Web Design & Development I

IDD103

Introduction to HTML5



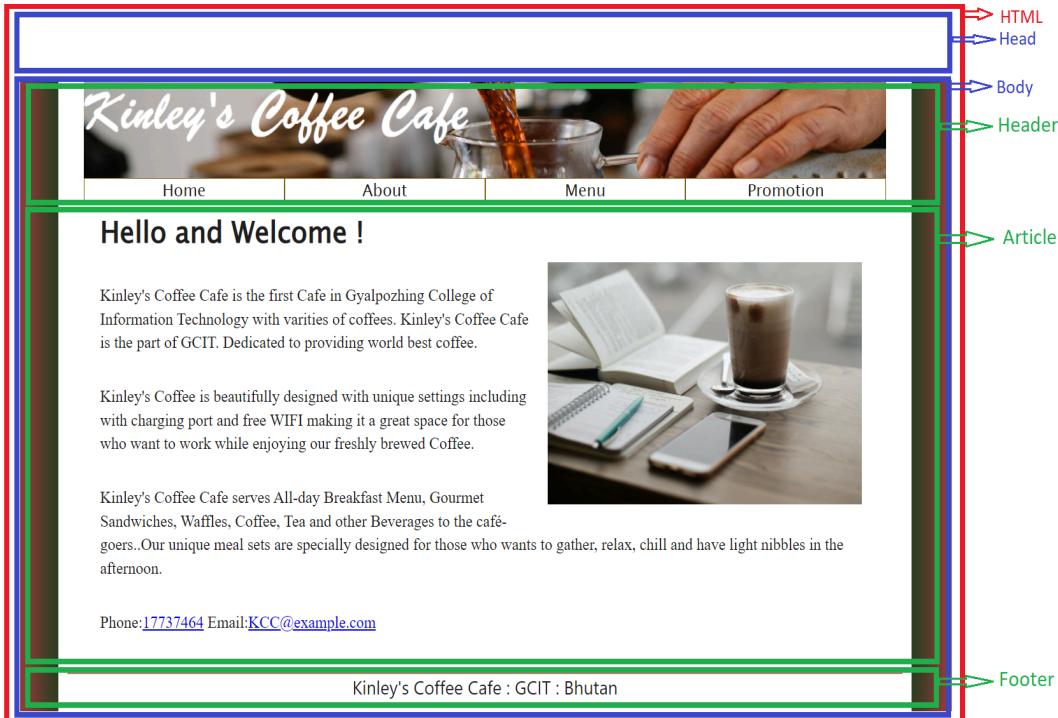
Kinley's Coffee Cafe

Prepared by Mr. Kinley Tshering

Content

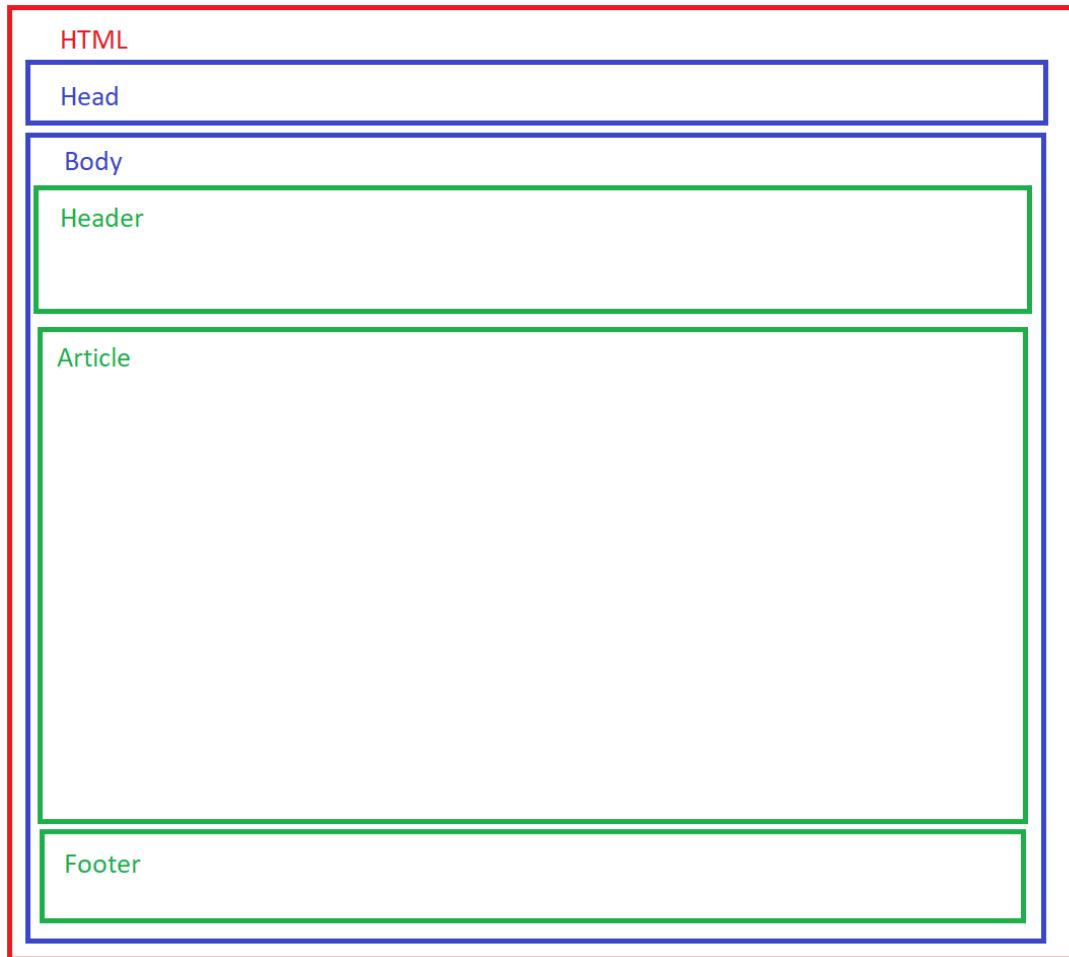
Understanding the layout of the web page	2
Installing Visual Studio Code	4
Using EMMET	5
Details step for structuring index.html	6
Step 1: HTML > (HEAD + BODY)	6
Step 2: BODY > (HEADER + ARTICLE + FOOTER)	6
Step 3: HEADER > (ANCHOR >IMAGE) + NAVIGATION	7
Step 4: NAVIGATION > UI > 4 ITEMS >ANCHOR	8
Step 5: BODY> ARTICLE > H1 + IMAGE +4 PARAGRAPHS	9
Filling in the contents	10
Step 1: HEADER	10
Step 2: Body	11
Step 3: FOOTER	12
Adding in the styles	12
Practices	12
Structuring for KCC_menu.html	14
Filling in the contents for KCC_menu.html	15
Practices	16

Understanding the layout of the web page

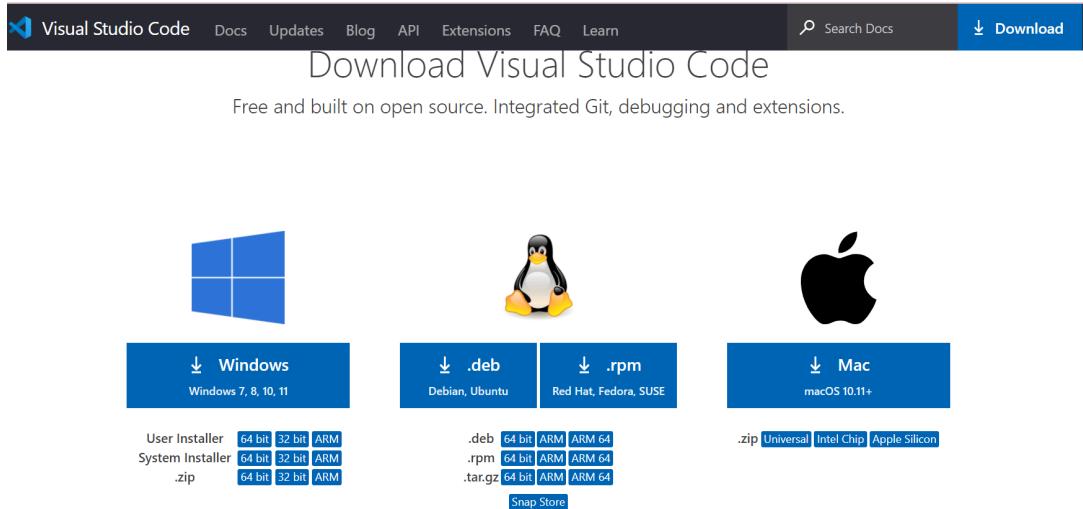


- Layout of the webpage is the arrangement of all visual elements on a webpage.
- Web page structure is like a container within a container as illustrated above.
- It can also be visualized as a hierarchical structure of elements as shown below.

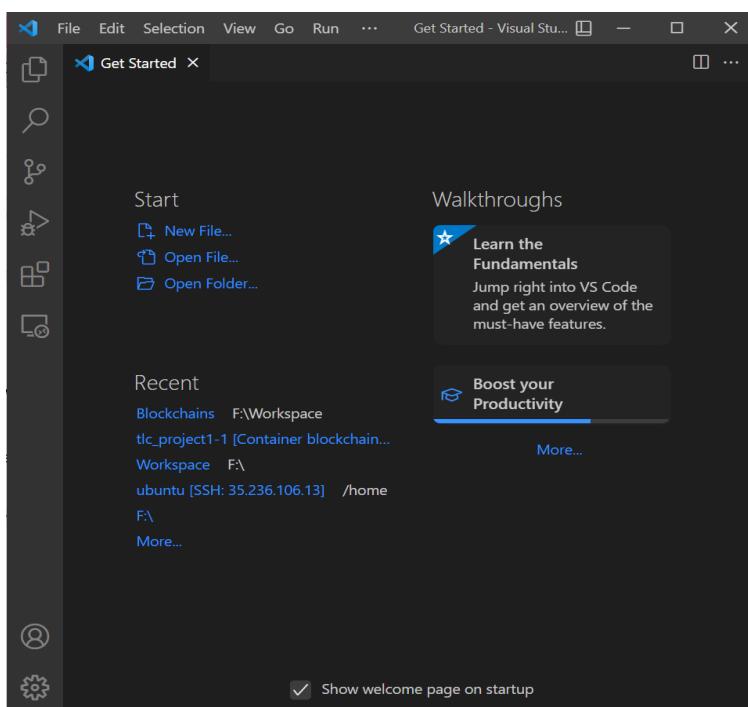
```
<html>
  <head> </head>
  <body>
    <header> </header>
    <article> </article>
    <footer> </footer>
  </body>
</html>
```



Installing Visual Studio Code

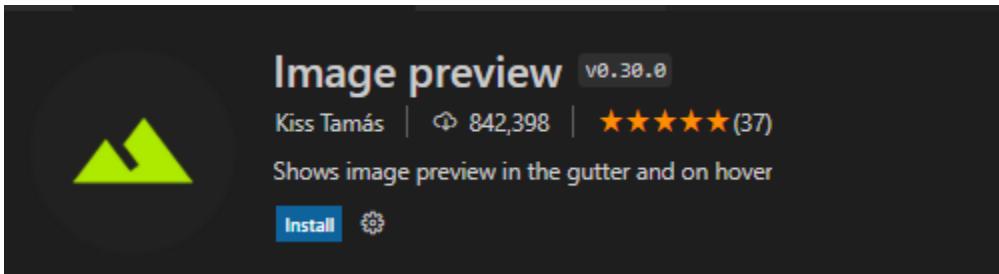


- Download the Visual Studio Code installer for Windows
<https://code.visualstudio.com/Download>
- Once it is downloaded, run the installer (VSCodeUserSetup-{version}.exe).
- By default, VS Code is installed under
`C:\users\{username}\AppData\Local\Programs\Microsoft VS Code`

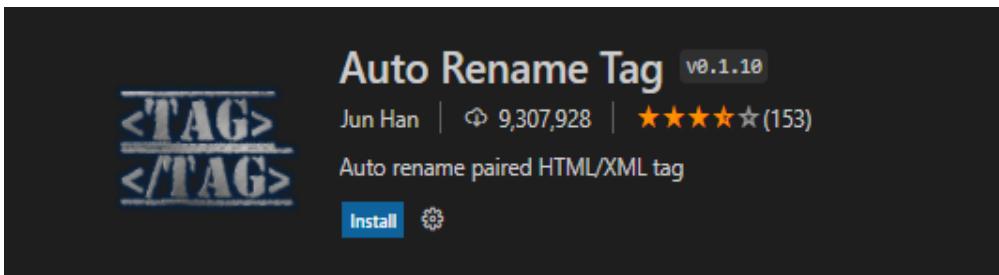


Recommended VS Code Extensions for HTML beginners

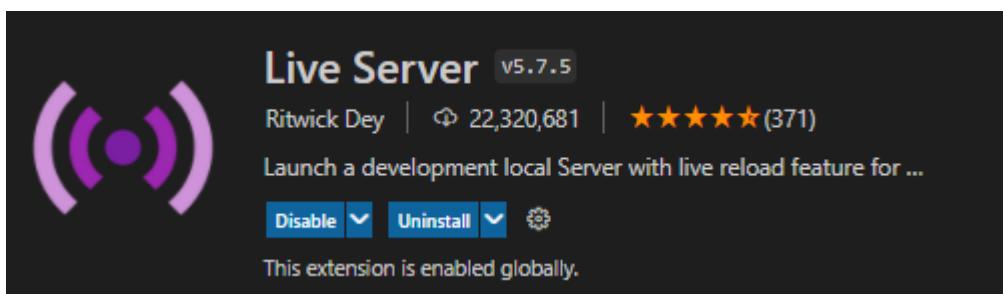
- Image preview



- Auto rename Tag



- Live Server



Using EMMET

- EMMET is a toolkit or a short-cut command to create a set of html code.
- Most importantly it allows high-speed coding, editing and prevents erroneous coding.

Details step for structuring index.html

Step 1: HTML > (HEAD + BODY)

- Create an empty html document and rename it to index.html in Visual Studio Code
 - Type '**html:5**' into the blank document.
- This will show the html codes containing html with head and body encapsulated.
- Look for the title tag and replace the content with 'Kinley's Coffee Cafe'
 - You should see the following:

```
<!--This is comment-->
<!--EMMET: html:5-->

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Kinley's Coffee Cafe</title>
</head>
<body>

</body>
</html>
```

Step 2: BODY > (HEADER + ARTICLE + FOOTER)

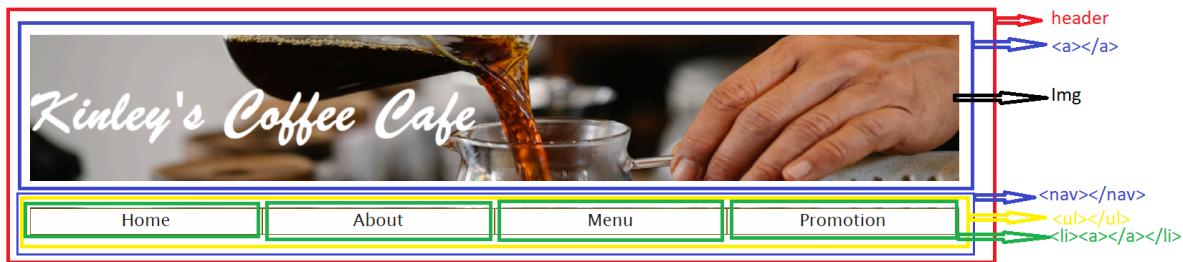
- Create the structure for the header, article and footer within the body tag by typing the following EMMET code with the body tag : '**header+article+footer**'
The '+' sign implies creating each tag next to each other in the same hierarchy.
- You should see the following:

```
<!--This is comment-->
```

```
<! --EMMET: html:5-->

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Kinley's Coffee Cafe</title>
</head>
<body>
    <!--EMMET: header+article+footer-->
    <header></header>
    <article></article>
    <footer></footer>
</body>
</html>
```

Step 3: HEADER > (ANCHOR >IMAGE) + NAVIGATION



- To create the above structure inside the header, first, within the header tag, type the following EMMET code:
'(a>img)+nav'
- The '**'>**' sign implies creating an image tag within the anchor tag. Next to the anchor tag, we add a navigation bar in the same hierarchy.
- You should see the following:

```
<header>
  <!--EMMET: (a>img)+nav -->
  <a href=""><img src="" alt=""></a>
  <nav></nav>
</header>
```

Step 4: NAVIGATION > UI > 4 ITEMS >ANCHOR

- Create the structure for the navigation menu items using unordered list within the nav tag by typing the following EMMET code :
'ul>(li>a)*4'

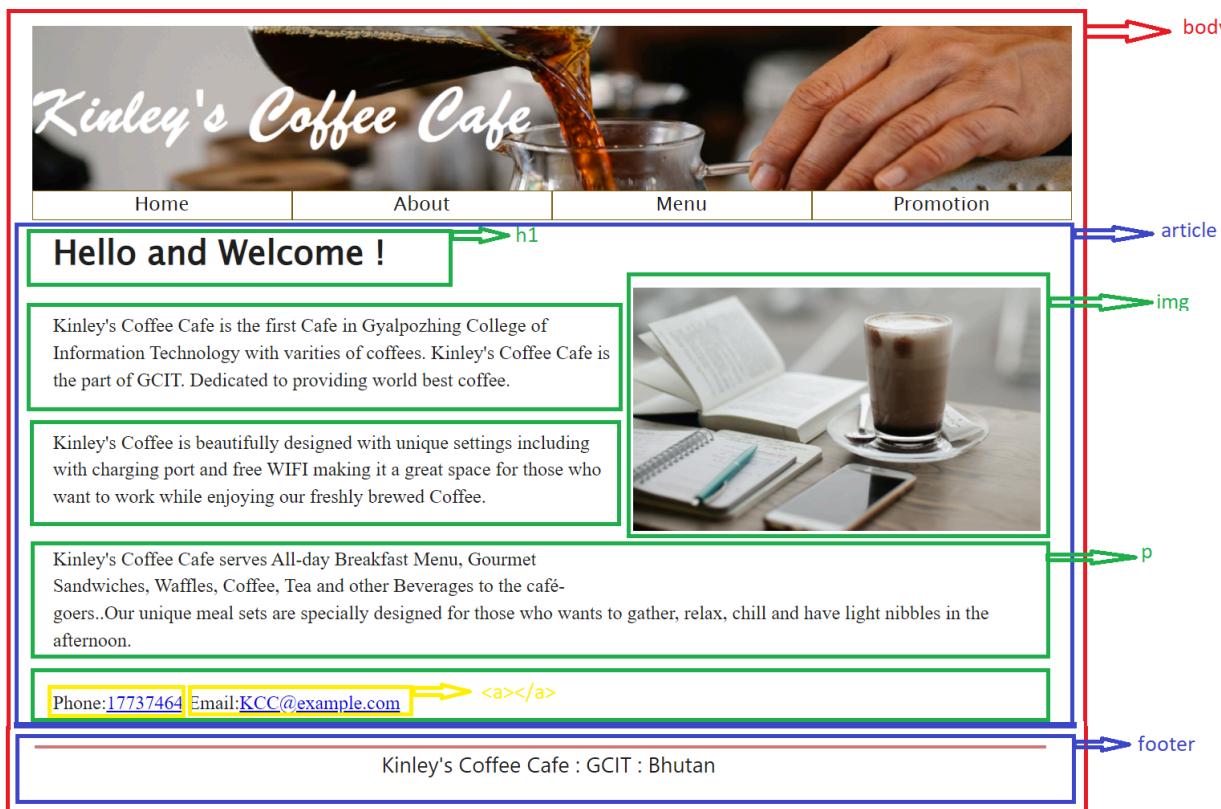
This means you are creating an unordered list and within the list there are list items containing anchors. The '*' sign implies creating 4 consecutive list item tags in the same hierarchy.

- You should see the following:

```
<header>
  <!--EMMET: (a>img)+nav -->
  <a href=""><img src="" alt=""></a>
  <nav>
    <!--EMMET: ul>(li>a)*4 -->
    <ul>
      <li><a href=""></a></li>
      <li><a href=""></a></li>
      <li><a href=""></a></li>
      <li><a href=""></a></li>
    </ul>
  </nav>
</header>
```

- The HTML structure for the header is finished

Step 5: BODY> ARTICLE > H1 + IMAGE +4 PARAGRAPHS



- Create the structure for the article, heading 1, image and 4 paragraph within the body tag by typing the following EMMET code :

'h1+img+p*4'

This means you are creating an article container and within the article there are a heading 1, image and 4 paragraphs in the same hierarchy.

- In the last paragraph, create 2 anchor tag for the phone and email hyperlinks within the last paragraph tag by typing the following EMMET code : '*2'
- You should see the following:

```
<article>
  <!--EMMET: h1+img+p*4 -->
  <h1></h1>
  <img src="" alt="">
  <p></p>
  <p></p>
```

```
<p></p>
<p>
    <!--EMMET: a*2-->
    <a href=""></a>
    <a href=""></a>
</p>
</article>
```

The basic structure for the index.html is created. You can test your web page by opening it in the browser.

Filling in the contents

Step 1: HEADER

- The header image is **logo.png** with alternate text, ‘Kinley’s Coffee Cafe’.
The alternate text is shown when the image fails to load and it is part of accessibility for the visually impaired.
- The title for the menu item and its associated page is as follows:
 - Home: KCC_home.html
 - About Us: KCC_about.html
 - Menu: KCC_menu.html
 - Promotions: KCC_promotions.html
- The finished coding should look like the following:

```
<header>
    <!--EMMET: (a>img)+nav -->
    <a href="index.html"></a>
    <nav>
        <!--EMMET: ul>(li>a)*4 -->
        <ul>
            <li><a href="index.html">Home</a></li>
            <li><a href="KCC_about.html">About</a></li>
            <li><a href="KCC_menu.html">Menu</a></li>
```

```
<li><a href="KCC_promotion.html">Promotion</a></li>
</ul>
</nav>
</header>
```

- The HTML for the header is finished

Step 2: Body

- Fill in the text for h1 and the image associated with it is rc_photo1.png.
- Copy the content from the given text file to the corresponding paragraph.
- Add the anchors for telephone and email contact using tel: and mailto: href
- The finished coding should look like the following:

```
<article>
<!--EMMET: h1+img+p*4 -->
<h1>Hello and Welcome !</h1>

<p>Kinley's Coffee Cafe is the first Cafe in Gyalpozhing College of Information Technology with varieties of coffees. Kinley's Coffee Cafe is part of GCIT. Dedicated to providing world best coffee.</p>
<p>Kinley's Coffee is beautifully designed with unique settings including with charging port and free WIFI making it a great space for those who want to work while enjoying our freshly brewed Coffee.</p>
<p>Kinley's Coffee Cafe serves All-day Breakfast Menu, Gourmet Sandwiches, Waffles, Coffee, Tea and other Beverages to the café-goers..Our unique meal sets are specially designed for those who want to gather, relax, chill and have light nibbles in the afternoon.</p>
<p>
<!--EMMET: a*2-->
Phone:<a href="17737464">17737464</a>
Email:<a href="mailto:KCC@example.com">KCC@example.com</a>
</p>
</article>
```

- The HTML for the body is finished

Step 3: FOOTER

- Copy the content from the given text file to the footer.
- The finished coding should look like the following:

```
<footer>
    Kinley's Coffee Cafe : GCIT : Bhutan
</footer>
```

- The HTML for the footer is finished

Adding in the styles

Finally add the following style in the head of the index.html

```
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="KCC_base.css">
    <link rel="stylesheet" href="KCC_overlay.css">
    <title>Kinley's Coffee Cafe</title>
</head>
```

The web page is fully finished. Open in browser to take a look

Practices

1. KCC_about.html follows the same structure as the index.html. Try doing it by yourself.
2. Your finished output should look like the following:



Kinley's Coffee Cafe

Home About Menu Promotion

About Us

Kinley's Coffee Cafe is a unique cafe that serves delicious comfort food at affordable prices. We are located at Gyalpozhing College.

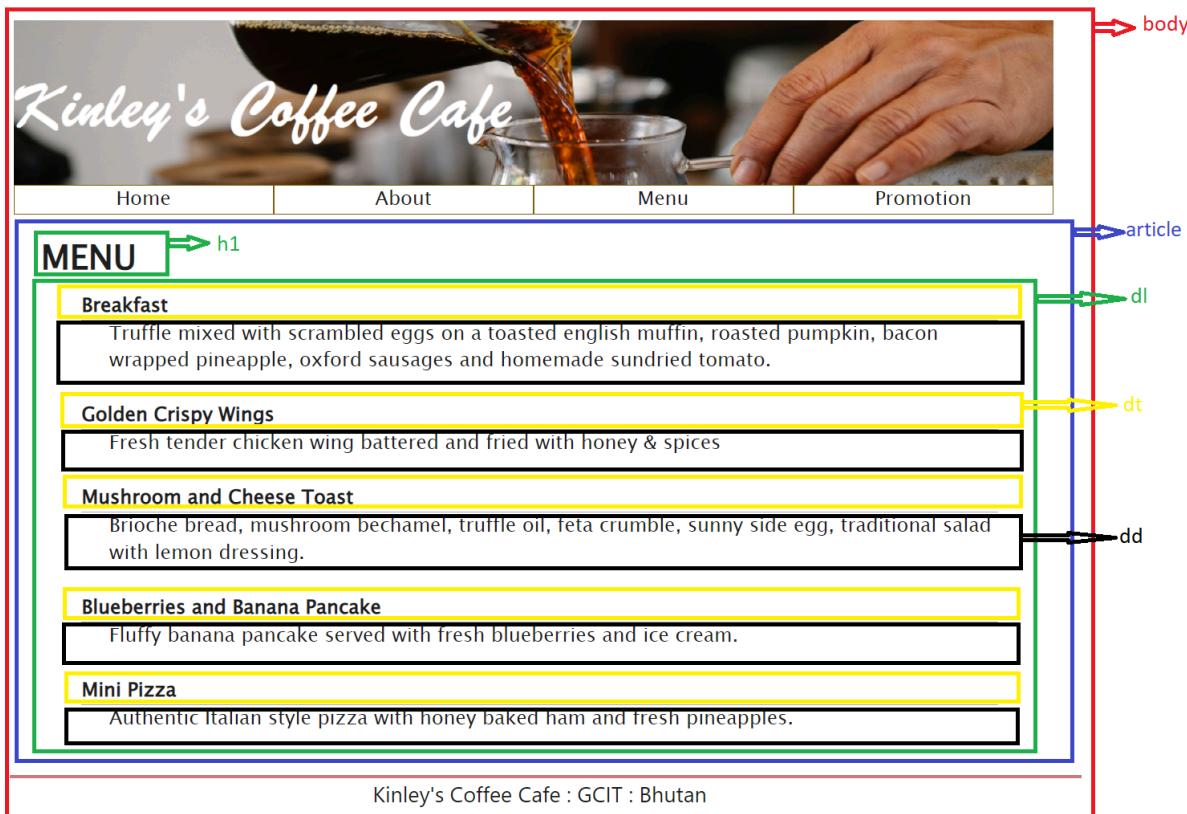
We are one of those cafes that roast their own coffees. We roast the coffee in small batches, regularly in order to maintain the flavour and to meet the demand of the cafe and customers. Our coffee are roasted by under our specially trained staff.

Our 20-seater cafe delivers the evergreen favourites classics like English Breakfast, Homemade Pancakes as well as weekend specials dishes like our Yogurt. You can always enjoy a slow and enchanted morning with friends or colleagues.

Kinley's Coffee Cafe : GCIT : Bhutan



Structuring for KCC_menu.html



- To create the above structure inside the body, first, within the article tag, type the following EMMET code:
'h1+dl>(dt+dd)*5'
- This will show the Description List **<dl>** containing with Description Term **<dt>** and Description Details **<dd>**
- You should see the following:

```
<article>
  <!--EMMET: h1+dl>(dt+dd)*5 -->
  <h1></h1>
  <dl>
    <dt></dt>
    <dd></dd>
    <dt></dt>
```

```

<dd></dd>
<dt></dt>
<dd></dd>
<dt></dt>
<dd></dd>
<dt></dt>
<dd></dd>

</dl>
</article>
```

Filling in the contents for KCC_menu.html

- Fill in the text for h1.
- Copy the content from the given text file to the corresponding Description Lis.
- The finished coding should look like the following:

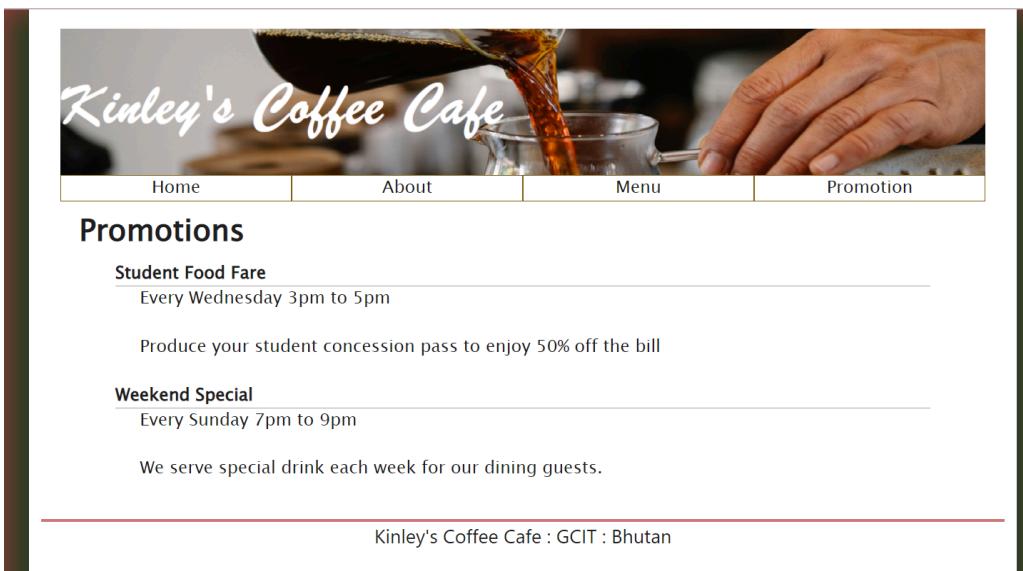
```

<article>
  <!--EMMET: h1+dl>(dt+dd)*5 -->
  <h1>MENU</h1>
  <dl>
    <dt>Breakfast</dt>
    <dd>Truffle mixed with scrambled eggs on a toasted english muffin,  
roasted pumpkin, bacon wrapped pineapple, oxford sausages and homemade sundried  
tomato.</dd>
    <dt>Golden Crispy Wings</dt>
    <dd>Fresh tender chicken wing battered and fried with honey &  
spices</dd>
    <dt>Mushroom and Cheese Toast</dt>
    <dd>Brioche bread, mushroom bechamel, truffle oil, feta crumble, sunny  
side egg, traditional salad with lemon dressing.</dd>
    <dt>Blueberries and Banana Pancake</dt>
    <dd>Fluffy banana pancake served with fresh blueberries and ice  
cream.</dd>
    <dt>Mini Pizza</dt>
    <dd>Authentic Italian style pizza with honey baked ham and fresh  
pineapples. </dd>
  </dl>
```

```
</article>
```

Practices

1. KCC_promotion.html follows the same structure as the KCC_menu.html. Try doing it by yourself.
2. Your finished output should look like the following:



The screenshot shows a website for "Kinley's Coffee Cafe". At the top, there is a banner image of a hand pouring coffee from a pot into a cup. Below the banner is a navigation menu with four items: "Home", "About", "Menu", and "Promotion". The "Promotion" item is currently selected, indicated by a darker background. The main content area is titled "Promotions". It contains two sections: "Student Food Fare" and "Weekend Special".
Student Food Fare
Every Wednesday 3pm to 5pm
Produce your student concession pass to enjoy 50% off the bill.
Weekend Special
Every Sunday 7pm to 9pm
We serve special drink each week for our dining guests.

At the bottom of the content area, there is a horizontal line followed by the text "Kinley's Coffee Cafe : GCIT : Bhutan".

#####Thankyou#####