1. Basic HTML and CSS

Finding 404
The Nexus, SJCET

Basic HTML Structure

```
<html>
<head>
<title>website title</title>
</head>
<body>
content of website ...
</body>
</html>
```

Common Tags

```
-   <h?> heading </h?>                 Heading (h1 for largest to h6 for
smallest)
-   <p> paragraph </p>                 Paragraph of Text
-   <b> bold </b>                 Make text between tags bold
-   <i> italic </i>                   Make text between tags italic
-   <a href="url"> link name </a>      Create a link to another page or
website
-   <div> ... </div>                   Divide up page content into sections,
and applying styles
-   <img src="filename.jpg">         Show an image
-   <ul> <li> list </li> </ul>        Unordered, bullet-point list
-   <br>                          Line Break (force a new line)
-   <span style="color:red"> red </span> Use CSS style to change text colour
```

Text Formatting

```
<h?> ... </h?>                       Heading (?= 1 for largest to 6 for
smallest, eg h1)
<b> ... </b>                    Bold Text
<i> ... </i>                    Italic Text
<u> ... </u>                    Underline Text
<strike> ... </strike>          Strikeout
<sup> ... </sup>                Superscript - Smaller text placed below
normal text
<sub> ... </sub>                Subscript - Smaller text placed below
normal text
<small> ... </small>            Small - Fineprint size text
<tt> ... </tt>                  Typewriter Text
<pre> ... </pre>                Pre-formatted Text
<blockquote> ... </blockquote>  Text Block Quote
<strong> ... </strong>          Strong - Shown as Bold in most browsers
<em> ... </em>                  Emphasis - Shown as Italics in most
browsers
<font> ... </font>              Font tag obsolete, use CSS. (*)
```

Section Divisions

```
<div> ... </div>              Division or Section of Page Content
<span> ... </span>            Section of text within other content
<p> ... </p>                      Paragraph of Text
<br>                              Line Break
<hr>                          Basic Horizontal Line
<hr>
```

Tag Attributes:

```
size="?"                      Line Thickness in pixels
width="?"                        Line Width in pixels
width="??%"                   Line Width as a percentage
color="#??????"               Line Colour (*)
align="?"                     Horizontal Alignment: left, center, right (*)
noshade                       No 3D cut-out
<nobr> ... </nobr>            Line Break
```

Images

```
<img src="url" alt="text">        Basic Image
<img>                             Tag Attributes:
src="url"                     URL or filename of image (required!)
alt="text"                    Alternate Text (required!)
align="?"                     Image alignment within surrounding text (*)
width="??"                    Image width (in pixels or %)
height="??"                   Image height (in pixels or %)
border="??"                   Border thickness (in pixels) (*)
vspace="??"                   Space above and below image (in pixels) (*)
hspace="??"                   Space on either side of image (in pixels)
(*)
```

Linking Tags

```
<a href="url"> link text </a>     Basic Link
<a>                               Tag Attributes:
href="url"                    Location (url) of page to link to.
name="??"                     Name of link (name of anchor, or name of
bookmark)
target="?"                    Link target location: _self, _blank, _top,
_parent.
href="url#bookmark"               Link to a bookmark (defined with name
attribute).
href="mailto:email"               Link which initiates an email (dependant
on user's email client).
```

Lists

```
<ol> ... </ol>                Ordered List
<ul> ... </ul>                Un-ordered List
<li> ... </li>                List Item (within ordered or unordered)
<ol type="?">                     Ordered list type: A, a, I, i, 1
<ol start="??">               Ordered list starting value
<ul type="?">                     Unordered list bullet type: disc,
```

```
circle, square
<li value="??">                  List Item Value (changes current and
subsequent items)
<li type="??">                   List Item Type (changes only current item)
<dl> ... </dl>                   Definition List
<dt> ... </dt>                   Term or phrase being defined
<dd> ... </dd>                   Detailed Definition of term
```

Tables

```
<table> ... </table>                 Define a Table
<tr> ... </tr>               Table Row within table
<th> ... </th>               Header Cell within table row
<td> ... </td>               Table Cell within table row
```

<table> Tag Attributes:

```
border="?"                   Thickness of outside border
bordercolor="#??????"           Border Colour
cellspacing="?"                 Space between cells (pixels)
cellpadding="?"                 Space between cell wall and content
align="??"               Horizontal Alignment: left, center, right
(*)
bgcolor="#??????"               Background Colour (*)
width="??"               Table Width (pixels or %) (*)
height="??"              Table Height (pixels or %) (*)
```

<td> Tag Attributes:

```
colspan="?"          Number of columns the cell spans across (cell merge)
rowspan="?"          Number of row a cell spans across (cell merge)
width="??"               Cell Width (pixels or %) (*)
height="??"          Cell Height (pixels or %) (*)
bgcolor="#??????"           Background Colour (*)
align="??"               Horizontal Alignment: left, center, right (*)
valign="??"          Vertical Alignment: top, middle, bottom (*)
nowrap                   Force no line breaks in a particular cell
```

Frames

```
<frameset> ... </frameset>           Define the set of Frames
<frame> ... </frame>                 Define a frame within the frameset
<noframes> ... </noframes>       Unframed content (for browsers not
supporting frames)
```

<frameset> Tag Attributes:

```
rows="??,??, ..."            Define row sizes & number of rows (size in
pixels or %)
cols="??,??, ..."            Define column sizes & number of columns (size in
pixels or %)
noresize="noresize"              User cannot resize any frames in frameset
```

<frame> Tag Attributes:

```
src="url"                        Location of HTML File for a frame
name="***"                       Unique name of frame window
marginwidth="?"           Horizontal margin spacing inside frame (pixels)
marginheight="?"          Vertical margin spacing inside frame (pixels)
noresize="noresize"             Declare all frameset sizes as fixed
scrolling="***"           Can the user scroll inside the frame: yes, no,
auto
frameborder="?"           Frame Border: (1=yes, 2=no)
bordercolor="#??????"     Border Colour (*)
```

Forms

```
<form> ... </form>                    Form input group decleration
<input> ... </input>                   Input field within form
<select> ... </select>        Select options from drop down list
<option> ... </option>        Option (item) within drop down list
<textarea> ... </textarea>          Large area for text input
```

<form> Tag Attributes:

```
action="url"                          URL of Form Script
method="***"                          Method of Form: get, post
enctype="***"               For File Upload: enctype="multipart/form-data"
```

<input> Tag Attributes:

```
type="***"                      Input Field Type: text, password, checkbox,
submit etc.
name="***"                      Form Field Name (for form processing script)
value="***"                     Value of Input Field
size="***"                      Field Size
maxlength="?"                   Maximum Length of Input Field Data
checked                         Mark selected field in radio button group or
checkbox
```

<select> Tag Attributes:

```
name="***"                      Drop Down Combo-Box Name (for form processing
script)
size="?"                        Number of selectable options
multiple                        Allow multiple selections
```

<option> Tag Attributes:

```
value="***"                     Option Value
selected                        Set option as default selected option
```

<textarea> Tag Attributes:

```
name="***"                      Text Area Name (for form processing script)
rows="?"                        Number of rows of text shown
cols="?"                        Number of columns (characters per rows)
wrap="***"                      Word Wrapping: off, hard, soft
```

Special Characters

```
&lt;   <    - Less-Than Symbol
&gt;   >    - Greater-Than Symbol
&amp;  &    - Ampersand, or 'and' sign
&quot; "    - Quotation Mark
&copy; ©    - Copyright Symbol
&trade;™    - Trademark Symbol
  -    A space (non-breaking space)
```

Miscellaneous Tags

```
<!-- ... -->                       Comment within HTML source code
<!DOCTYPE html ... >               Document Type Definition (wiki)
<meta> ... </meta>                 META information tag
<meta>                             Tag Attributes:
name="***"                       Meta name: description, keywords, author
http-equiv="***"                HTTP Equivalent Info: title, etc.
content="***"                      Information content
<link>                           LINK content relationship tag
<link>                            Tag Attributes:
rel="***"                        Type of forward relationship
http="url"                       Location (URL) of object or file being
linked
type="***"                       Type of object or file, eg: text/css
title="***"                      Link title (optional)
```

Body Background & Colours

- <body> Tag Attributes:

```
background="url"                 Background Image (*)
bgcolor="#??????"                  Background Colour (*)
text="#??????"                   Document Text Colour (*)
link="#??????"                   Link Colour (*)
vlink="#??????"                  Visited Link Colour (*)
alink="#??????"                  Active Link Colour (*)
bgproperties="fixed"               Background Properties - "Fixed" =
non-scrolling watermark (*)
leftmargin="?"                   Side Margin Size in Pixels (Internet
Explorer) (*)
topmargin="?"                    Top Margin Size in Pixels (Internet
Explorer) (*)
```