CSS

1. Font property of CSS

Name	Function
font	Sets all the font properties in one declaration font:15px arial, sans-serif;
font-family	Specifies the font family for text font-family: "Times New Roman", Times, serif;
font-size	Specifies the font size of text font-style: normal;
font-style	Specifies the font style for text font-size: 40px;
font-variant	Specifies whether or not a text font-variant: small-caps;
font-weight	Specifies the weight of a font font-weight: bold;

2. Different Types of CSS

- Inline CSS
- Internal CSS
- External CSS

3. CSS Box Model

- All elements in HTML can be considered as boxes
- In CSS, box model is used when talking about design and layout
- Box model is a box that wraps around every HTML elements
- It consist of:
 - Margin
 - Border
 - Padding

- Content
- Explanation of the different parts:
 - Content The content of the box, where text and images appear
 - Padding Clears an area around the content. The padding is transparent
 - Border A border that goes around the padding and content
 - Margin Clears an area outside the border. The margin is transparent
- Example:

```
div {
    width: 300px;
    border: 15px solid green;
    padding: 50px;
    margin: 20px;
}
```

4. CSS Background & Text Properties

Background

Name	Function
background	Shorthand property for all other property background: coral;
background-color	Specifies the background color to be used background-color: coral;
background-image	Specifies ONE or MORE background images to be use background-image: url("paper.gif");
background-position	Specifies the position of the background images background-position: center;
background-size	Specifies the size of the background images background-size: 300px 100px;
background-repeat	Specifies how to repeat the background images background-repeat: repeat-y;

Name	Function	
	repeat repeat-x repeat-y no-repeat initial inh	
background-origin	Specifies the positioning area of the background image background-origin: content-box;	
background-clip	Specifies the painting area of the background images background-clip: padding-box;	
background-attachment	Specifies whether the background images are fixed or scrolls with the rest of the page background-attachment: fixed;	

Text

Name	Function
color	Sets the color of text
direction	Specifies the text direction/writing direction direction: rtl; ltr
letter-spacing	Increases or decreases the space between characters in a text letter-spacing: 3px;
line-height	Sets the line height line-height: 1.6;
text-align	Specifies the horizontal alignment of text text-align:center
text-decoration	Specifies the decoration added to text text-decoration: underline;
text-indent	Specifies the indentation of the text block text-indent: 50px;

6. CSS Navigation Bar

```
<!DOCTYPE html>
<html>
<head>
<style>
ul {
 list-style-type: none;
 margin: 0;
  padding: 0;
 overflow: hidden;
 background-color: #333;
}
li {
 float: left;
}
li a {
 display: block;
 color: white;
 text-align: center;
 padding: 14px 16px;
 text-decoration: none;
}
li a:hover {
 background-color: #111;
}
</style>
</head>
<body>
<l
  <a class="active" href="#home">Home</a>
  <a href="#news">News</a>
  <a href="#contact">Contact</a>
  <a href="#about">About</a>
</body>
</html>
```

7. Difference Between ID and Class

ID	Class
ID is used to select an individual Element	Class is used to select a group of element
An ID selector is a name preceded by a hash character ("#").	a class selector is a name preceded by a full stop (".") and
The HTML refers to the CSS by using the attribute id	he HTML refers to the CSS by using the attribute class
ID has higher specificity	Class has lower Specificity

8. Contextual Selector

- Contextual selector is used to match elements that appear in a certain context, such as "only those EM elements that are contained by an H1 element".
- In these cases, contextual selectors add specificity. Context is defined as an ancestor/descendent relationship between elements in the document tree.
- Exaple:

```
div p{
    color:red;
}
```