

## Q.1. What is CSS?

- 1) CSS stands for **Cascading Style Sheets**.
- 2) CSS describes how HTML elements are displayed on screen.
- 3) CSS can be written in several ways:
  - **Inline CSS:** Inside individual HTML elements.
  - **Embedded CSS:** Using the <style> tag in the <head> section.
  - **External CSS:** Separated CSS file.

### 1) Inline CSS:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>Inline CSS Example</title>
  </head>
  <body>
    <h1 style="color: blue;">This is a Heading</h1>
    <p style="font-size: 16px;">This is a paragraph.</p>
  </body>
</html>
```

**This is a Heading**

This is a paragraph.

### 2) Embedded CSS:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Embedded CSS Example</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
    }
  </style>
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

**This is a Heading**

This is a paragraph.

```

    h1{
        color: blue;
    }
    p{
        font-size: 16px;
    }
</style>
</head>

<body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
</body>
</html>

```

### 3) External CSS:

This is a Heading

This is a paragraph.

#### Page.html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>External CSS Example</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
</body>
</html>

```

#### Style.css

```

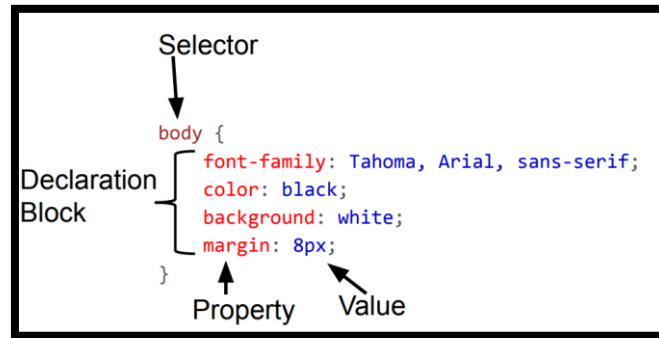
body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
}

h1 {
    color: blue;
}

p {
    font-size: 16px;
}

```

## Q.2. Define the CSS selectors.



CSS Selector	CSS	HTML
Tag name	<pre>h1 {   color: red; }</pre>	<pre>&lt;h1&gt;Today's Specials&lt;/h1&gt;</pre>
Class attribute	<pre>.large {   font-size: 16pt; }</pre>	<pre>&lt;p class="large"&gt;...</pre>
Tag and Class	<pre>p.large {...}</pre>	<pre>&lt;p class="large"&gt;...</pre>
Element id	<pre>#p20 {   font-weight: bold; }</pre>	<pre>&lt;p id="p20"&gt;...</pre>

### CSS Pseudo Selectors

hover - Apply rule when mouse is over element (e.g. tooltip)

```
p:hover, a:hover {
  background-color: yellow;
}
```

a:link, a:visited - Apply rule when link has been visited or not visited (link)

<pre>a:visited {   color: green; }</pre>	<pre>a:link {   color: blue; }</pre>
--	--------------------------------------

## Q.3. Write the necessary HTML and CSS for the following.

### First Section Heading

Here is the first paragraph, containing text that really doesn't have any use or meaning; it just prattles on and on, with no end whatsoever, no point to make, really no purpose for existence at all.

### Another Section Heading

Another paragraph.


```
body {
  font-family: Tahoma, Arial, sans-serif;
  font-size: 13px;
  color: black;
  background: white;
  margin: 8px;
}
h1 {
  font-size: 19px;
  margin-top: 0px;
  margin-bottom: 5px;
  border-bottom: 1px solid black
}
.shaded {
  background: #d0d0ff;
}
```


```
<body>
  <h1>First Section Heading</h1>
  <p>
    Here is the first paragraph, containing
    text that really doesn't have any use
    or meaning; it just prattles on and on,
    with no end whatsoever, no point to
    make, really no purpose for existence
    at all.
  </p>
  <div class="shaded">
    <h1>Another Section Heading</h1>
    <p>
      Another paragraph.
    </p>
  </div>
</body>
```


#### Q.4. What is the different ways for selecting color in CSS?

##### Color - Properties: color & background\_color

Must ultimately turn into red, green, and blue intensities between 0 and 255:

- Predefined names: red, blue, green, white, etc. (140 standard names)
- 8-bit hexadecimal numbers for red, green, blue: #ff0000 →   

RGB
- 0-255 decimal intensities: rgb(255,255,0) →   

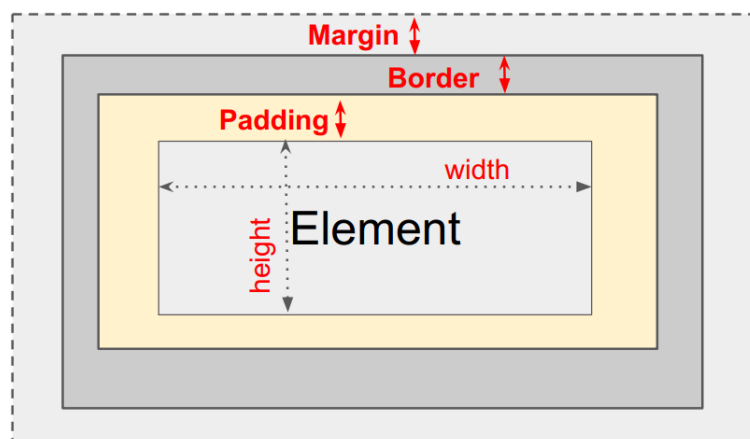
RGB
- Percentage intensities: rgb(80%,80%,100%) →   

RGB

Example: `h1: { color: red; }`

#### Q.5. Define the CSS Box Model

##### CSS Box Model



### Q.6. State the CSS distance units.

#### CSS distance units

Absolute	
2px	pixels
1mm	millimeters
2cm	centimeters
0.2in	inches
3pt	printer point 1/72 inch
Relative	
2em	2 times the element's current font size
3rem	3 times the root element's current font size

### Q.7. Give an example to show the difference between em and rem

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>em and rem Example</title>
  <style>
    body {
      font-size: 16px;
    }
    .parent {
      font-size: 1.2em;
    }
    .box-em {
      font-size: 2em;
      width: 100px;
      height: 100px;
      background-color: lightblue;
      margin: 20px;
      padding: 10px;
    }
    .box-rem {
      font-size: 1.5rem;
      width: 100px;
      height: 100px;
      background-color: lightgreen;
      margin: 20px;
      padding: 10px;
    }
  </style>
</head>
<body>
  <div class="parent">
    <div class="box-em">This is a box with font size 2em.</div>
  </div>
  <div class="box-rem">This is a box with font size 1.5rem.</div>
</body>
</html>
```