	SVKM's NMIMS	
	Mukesh Patel School of Technology Management & Engineering	
	Program: B.Tech Cyber security/ IT MBA.Tech IT	

Instructor Manual	**Lab Manual (Part-A)**	**Academic Year-**

Year:-Second Year	**Subject:- Web Programming**	**Semester:- III**

Name: ARJUN MEHTA	**Roll no: K036**
Program/Branch : B. Tech CSE Cybersecurity	**Batch: K1**

Aim:

1. Apply styling technique Using Inline CSS
2. Apply styling technique Using External CSS

Prerequisites:-

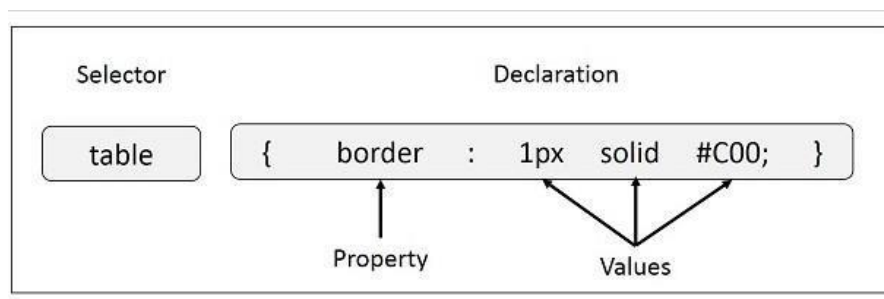- Basic Tags of HTML.

Theory:-

Cascading Style Sheets (CSS)

Syntax

```
selector { property: value }
```

- A CSS rule-set consists of a selector and a declaration

block: - Declaration part is further divided into property

and values.

- **Selector** − A selector is an HTML tag at which a style will be applied. This could be any tag like <h1> or <table> etc.
- **Property** - A property is a type of attribute of HTML tag. Put simply, all the HTML attributes are converted into CSS properties. They could be *color*, *border* etc.
- **Value** - Values are assigned to properties. For example, *color* property can have value either *red* or any other color.

The selector points to the HTML element you want to style.

The declaration block contains one or more declarations separated by semicolons.

Each declaration includes a property name and a value, separated by a colon.

Properties	Values
background-attachment	scroll, fixed
background-color	(color), transparent
background-image	none, (location)
background-position	(percent), (length), top, center, bottom, left, center, right
background-repeat	repeat, repeat-x, repeat-y, no-repeat
Background	Any of the above background values separated by spaces.
Color	(color)

Properties	Values
margin-bottom	(length), (percent), auto
margin-left	(length), (percent), auto
margin-right	(length), (percent), auto
margin-top	(length), (percent), auto
margin	Any of the above margin values in top, right, bottom, left order separated by spaces.

padding-bottom	(length), (percent)
padding-left	(length), (percent)
padding-right	(length), (percent)
padding-top	(length), (percent)

padding	Any of the above padding values in top, right, bottom, left order separated by spaces.
border-bottom-width	medium, thin, thick, (length)
border-bottom	Any of the border-top-bottom, border-color and border-style values.
border-color	(color)
border-left-width	medium, thin, thick, (length)
border-left	Any of the border-top-left, border-color and border-style values.
border-right-width	medium, thin, thick, (length)
border-right	Any of the border-right-width, border-color and border-style values.
border-style	none, dotted, dashed, solid, double, groove, ridge, inset, outset
border-top-width	medium, thin, thick, (length)
border-top	Any of the border-top-width, border-color and border-style values.
border	Any of the border values. Applies to all borders.
height	auto, (length), (percent)
width	auto, (length), (percent)
list-style-type	disc, circle, square, decimal, lower-roman, upper-roman, lower-alpha, upper-alpha, upper-latin, hebrew, armenian, georgian, cjk-ideographic, hiragana, katakana, hiragana-iroha, katakana-iroh, none
list-style-image	none, (url)
list-style-position	outside, inside
Properties	**Values**
list-style	Any of the above list-style values separated by spaces.
white-space	normal, pre, nowrap

border-collapse	collapse, separate, inherit
border-spacing	(length)(length), inherit
caption-side	top, bottom, left, right, inherit
empty-cells	show, hide, inherit

speak-header	once, always, inherit
table-layout	auto, fixed, inherit

Three Ways to Insert CSS

There are three ways of inserting a style sheet:

- Internal style sheet
- Inline style
- External style sheet

Internal Style Sheet

An internal style sheet should be used when a single document has a unique style. You define internal styles in the head section of an HTML page, inside the <style> tag, like this:

```
<head> <style>
hr{color:sienna;}
p{margin-left:20px;}
body{background-image:url("images/background.gif");}
</style>
</head>
```

Inline Styles

An inline style loses many of the advantages of a style sheet (by mixing content with presentation). Use this method sparingly!

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To use inline styles, add the style attribute to the relevant tag. The style attribute can contain any CSS property. The example shows how to change the color and the left margin of a paragraph:

```
<p style="color:sienna;margin-left:20px;">This is a paragraph.</p>
```

nth-child Property: The :nth-child(n) selector matches every element that is the nth child of its parent. n can be a number, a keyword (odd or even), or a formula (like an + b). For example:

```
<!DOCTYPE html>
<html>
<head> <style>
p:nth-child(odd) {
background: red;
}

p:nth-child(even) {
background: lightgreen;
}
</style>
</head>
<body>

<p>The first paragraph.</p>
<p>The second paragraph.</p>
<p>The third paragraph.</p>
<p>The fourth paragraph.</p>
<p>The fifth paragraph.</p>

</body>
</html>
```

Output:

Instructions to Students:-

1. Write html code in Note Pad & save with .html extension.
2. Execute using Web Browser.
3. Copy and Paste code as well as output (snapshot of output) in Part B

1. Design a navigation bar in a web page using HTML and CSS using external CSS.

Also create Home, Students, faculty and contact us pages separately.
Note: overflow: hidden property that prevents the list elements from going outside of the list, display: block property displays the links as the block elements and makes the entire link area clickable.
float: left property, which uses float for getting the block elements to slide them next to each other.

```html
<html>
<head>
    <title>My Navigation Bar</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <nav>
    <ul class="navbar">
        <li><a href="#">Home</a></li>
        <li><a href="#">Students</a></li>
        <li><a href="#">Faculty</a></li>
        <li><a href="#">Contact Us</a></li>
    </ul>
    </nav>
</body>
</html>
```

```css
.navbar {      list-style-
type: none;    margin: 0;
padding: 0;    background-
color: grey;    overflow:
hidden;
}
 .navbar li {      display:
inline-block;      margin-
right: 20px;
}
 .navbar  a {        text-
decoration: none;    color:
blue;          padding: 14px
20px;      display: block; }
```

2. Design a web page using box model using external CSS

Thought of the day

Note: Only use inline style for the text "Thought of the day".

```html
<html>
<head>
<title>Thought of the Day</title>
<link rel="stylesheet" href="style1.css"> </head>
<body>
<h2 style="text-align: center;">Thought of the Day</h2>
<div class="big-container">
<div class="thought-container">
<h2>Good Morning</h2>
<p>Passion is about figuring out what you are great at and what you love to do!</p>
</div>
</div>
</body>
</html>
```

```css
.thought-container {
border: 2px solid #ffdddd;
padding: 50px;
background-color: #ffdddd;
    }
    .big-container{
border: #ff8b8b 40px solid;
padding: 70px;      margin:
20px auto;      width: 300px;
text-align: center;
    background-color: aliceblue;
    }
```

Thought of the Day

Good Morning

Passion is about figuring out
what you are great at and
what you love to do!

3. Design a web page to style a table using external CSS.

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Berglunds snabbköp	Christina Berglund	Sweden
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
Island Trading	Helen Bennett	UK
Königlich Essen	Philip Cramer	Germany
Laughing Bacchus Winecellars	Yoshi Tannamuri	Canada
Magazzini Alimentari Riuniti	Giovanni Rovelli	Italy
North/South	Simon Crowther	UK
Paris spécialités	Marie Bertrand	France

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Styled Table</title>
    <link rel="stylesheet" href="styler.css">
</head>
<body>
    <h1>Company Contacts</h1>
    <table>
        <thead>
            <tr>
                <th>Company</th>
                <th>Contact</th>
                <th>Country</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Alfreds Futterkiste</td>
                <td>Maria Anders</td>
                <td>Germany</td>
            </tr>
            <tr>
                <td>Berglunds snabbköp</td>
                <td>Christina Berglund</td>
                <td>Sweden</td>
            </tr>
            <tr>
                <td>Centro comercial Moctezuma</td>
                <td>Francisco Chang</td>
                <td>Mexico</td>
            </tr>
            <tr>
                <td>Ernst Handel</td>
                <td>Roland Mendel</td>
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            </tr>
            <tr>
                <td>Island Trading</td>
                <td>Helen Bennett</td>
                <td>UK</td>
            </tr>
            <tr>
                <td>Königlich Essen</td>
                <td>Philip Cramer</td>
                <td>Germany</td>
            </tr>
            <tr>
```

```
            <td>Laughing Bacchus Winecellars</td>
            <td>Yoshi Tannamuri</td>
            <td>Canada</td>
        </tr>
        <tr>
            <td>Magazzini Alimentari Riuniti</td>
            <td>Giovanni Rovelli</td>
            <td>Italy</td>
        </tr>
        <tr>
            <td>North/South</td>
            <td>Simon Crowther</td>
            <td>UK</td>
        </tr>
        <tr>
            <td>Paris spécialités</td>
            <td>Marie Bertrand</td>
            <td>France</td>
        </tr>
    </tbody>
    </table>
</body>
</html>
```

Company Contacts

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Berglunds snabbköp	Christina Berglund	Sweden
Centro comercial Moctezuma	Francisco Chang	Mexico
Ernst Handel	Roland Mendel	Austria
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