Lab program 1

Develop the HTML page named as "Myfirstwebpage.html".
Add the following tags with relevant content.
1. Set the title of the page as "My First Web Page"
2. Within the body use the following tags:
a) Moving text = Basic HTML Tags
b) Different heading tags (h1 to h6)
c) Paragraph
d) Horizontal line
e) Line Break
f) Block Quote
g) Pre tag
h) Different Logical Style (b, u, sub, sup etc.)

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>My First Web Page</title>
</head>
<body>
<marquee>Basic HTML tags</marquee>
<hr>
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
<p>Visvesvaraya is regarded in India as one of the foremost civil
engineers whose birthday

is celebrated every year as <br>Engineer's Day in <u>India, Sri Lanka, and Tanzania</u>.
He is also often regarded as <b>the maker of                 modern Mysore</b>.There is a
quote that says</p>
<blockquote>
Strive for perfection in everything you do. Take the best that exists and make it better. When it
does not exist, design it.
</blockquote>
<p> This was quoted by <i>Sir Henry Royce </i></p>
<pre>Visvesvaraya is regarded in India as one of the foremost civil
engineers whose birthday
is celebrated every year as <br>Engineer's Day in India, Sri Lanka, and Tanzania.
He is also often regarded as <b>the maker of modern                 Mysore</b>.There is a quote
that says</pre>
<p>This is <sub>subscript</sub> and <sup>superscript</sup></p>
</body> </html>
```

Lab program 2

Develop the HTMI page named as "Table.html" to display your class time table.
a) Provide the title as Time Table with table header and table footer, rowspan and column span etc.
b) Provide various color options to the cells(Highlight the lab hours
and elective hours with different colors.)
c) provide color options for rows


```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Time Table</title>
<style>

body {
font-family: Calibri;
      }
    table {
       width: 100%;
       border-collapse: collapse;
    }
    th, td {
       border: 1px solid black;
       padding: 8px;
       text-align: center;
    }
    th {
       background-color: lightgrey;
    }
    .lab-hours {
       background-color: pink;
    }
    .elective-hours {
       background-color: lightgreen;
    }
    .lunch {
       background-color: yellow;
    }
    .odd-row {
       background-color: lightblue;
    }

  </style>
</head>
<body>
   <table>
      <thead>
         <tr>
```

```html
        <th colspan="12">Time Table</th>
      </tr>
      <tr>
        <th>Class</th>
        <th>Time/Days</th>
            <th>8.25-9.20</th>
        <th>9.20-10.15</th>
            <th>10.15-10.45</th>
        <th>10.45-11.40</th>
        <th>11.40-12.35</th>
        <th>12.35-1.30</th>
        <th>1.30-2.30</th>
            <th>2.30-3.25</th>
            <th>3.25-4.20</th>
            <th>4.20-5.15</th>
      </tr>
</thead>
<tbody>
    <tr>
      <th rowspan="9">5<sup>th</sup> Sem C Section</th>
      <td>Monday</td>
      <td class="lab-hours" colspan="2">WEB LAB-C1</td>
      <td class="lunch">B<td>
      <td class="lab-hours" colspan="2">WEB LAB-C2</td>
      <td class="lunch">L</td>
      <td>CN</td>
      <td>TOC</td>
      <td></td>
    </tr>
     <tr class="odd-row">
       <td>Tuesday</td>
       <td>CN</td>
       <td>CN</td>
           <td class="lunch">R</td>
           <td class="elective-hours">AI</td>
           <td>CN</td>
           <td>SE</td>
           <td class="lunch">U</td>
       <td colspan="3">ENV</td>
    </tr>
    <tr>
      <td>Wednesday</td>
      <td>SE</td>
      <td>TOC</td>
          <td class="lunch">E</td>
      <td>RM</td>
          <td>CN</td>
          <td>CN</td>
          <td class="lunch">N</td>
      <td></td>
          <td></td>
```

```html
                <td></td>
        </tr>
        <tr class="odd-row">
           <td>Thursday</td>
           <td></td>
           <td></td>
                <td class="lunch">A</td>
           <td class="elective-hours">AI</td>
                <td>RM</td>
                <td>TOC</td>
                <td class="lunch">C</td>
           <td></td>
                <td></td>
                <td></td>
        </tr>
        <tr>
           <td>Friday</td>
           <td class="lab-hours" colspan="2">WEB LAB-C3</td>
                <td class="lunch">K</td>
           <td>CN</td>
           <td>RM</td>
                <td>SE</td>
                <td class="lunch">H</td>
           <td class="elective-hours">AI</td>
                <td>TOC</td>
                <td>SE</td>
        </tr>
        <tr class="odd-row">
           <td>Saturday</td>
           <td></td>
           <td></td>
                <td></td>
                <td></td>
                <td></td>
                <td></td>
                <td colspan="4">-----------</td>
        </tr>
      </tbody>
      <tfoot>
        <tr>
          <td colspan="12">* Lab hours are highlighted in pink, elective hours in light
green</td>
        </tr>
      </tfoot>
   </table>
</body>
</html>
```

Lab program 3

Develop an external style sheet named as "style.css" and provide different styles for h2, h3, hr, p, div span, time, img and a tags. Apply different CSS selectors for tags and demonstrate the significance of each.

Html file

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sample Styled Page (No Div)</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <main id="main-content">

 <h2>Welcome to Our Styled Page</h2>

<p>This is a paragraph right after an h2. It demonstrates the adjacent sibling selector.</p>

<h3>Hover over me!</h3>
<hr>

<p lang="en">This paragraph has a lang attribute, demonstrating the attribute selector.</p>

<div>
<p>Here's a <span class="highlight">highlighted</span> word using the class selector.</p>

<p>This paragraph is inside div tag, showing the descendant selector.</p>
</div>

<p>The current date and time: <time datetime="YYYY-MM-DD">14 October 2024, 10:30 IST</time></p>

<p>Notice how the first letter of each paragraph is styled differently.</p>

<img src="https://jnnce.ac.in/jnndemo/img/jnnce.jpg" alt="A placeholder image">

<p>Check out this <a href="https://jnnce.ac.in/jnndemo/">link</a></p>

</main>
</body>
</html>
```

Css file "style.css"

```css
/* ID Selector */
#main-content {
max-width: 800px;
margin: 0 auto;
padding: 20px;
background-color: coral;
}

h2 {
color: green;
font-family: 'Arial';
border-bottom: 2px dashed purple;
padding-bottom: 10px;
}

/* Adjacent Sibling Selector */
h2 + p {
font-size: 1.1em; /*element metric, generic unit*/
color: blue;
}

/* Element Selector with Pseudo-class */
h3:hover {
color: green;
cursor:pointer;
}

/* Element Selector , 1 opaque*/
hr {
border: 0;
height: 3px;
background-image: linear-gradient(to left, rgba(255, 0, 0, 1), rgba(0, 255, 0,
0.75), rgba(0, 0, 255, 1));
}

/* Element Selector with Attribute */
p[lang] {
font-style: italic;
}

/* Class Selector */
.highlight {
background-color: yellow;
padding: 5px;
}
```

```css
/* Descendant Selector */
div p{
color:red;
line-height: 1.6;
}

/* Attribute Selector */
time[datetime] {
color: green;
font-weight: bold;
}

/* Pseudo-element Selector */
p::first-letter {
font-size: 1.5em;
font-weight: bold;
color: blue;
}

/* Multiple Selectors */
img, a {
border: 2px solid blue;
padding: 5px;
max-width:100%;
}

/* Child Selector */
p > span {
font-weight: bold;
color: black;
}

/* Pseudo-class Selector for Links */
a:link, a:visited {
color: green;
}

a:hover {
color: red;
}
```