Web Systems & Technologies

ITL-226

Lab Journal 3

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Lab # 3: HTML and HTML5

Objectives:

Learn about HTML and HTML5

Tools Used:

Visual Studio

Submission Date:

Evaluation: **Signatures of Lab Engineer:**

Task # 1:

Create the following tables using HTML:

Heading	Students	Details		
	Id	Name	Department	Roll Number
Student List	1	Victor	Computer Science	12345
	2	Williams	Electronics	23456
	3	Harry	Electrical	34567
	4	Rick	Civil	45678

-

```html
<!DOCTYPE html>
<html>
<head>
  <style>
    table, th, td {
      border: 1px solid black;
      border-collapse: collapse;
      padding: 5px;
      text-align: left;
    }
    th {
      background-color: #f2f2f2;
    }
  </style>
</head>
<body>

<table>
  <tr>
    <th colspan="2">Heading</th>
    <th colspan="2">Details</th>
```

```html
    </tr>
    <tr>
      <td rowspan="5">Student List</td>
      <th>Id</th>
      <th>Name</th>
      <th>Department</th>
      <th>Roll Number</th>
    </tr>
    <tr>
      <td>1</td>
      <td>Victor</td>
      <td>Computer Science</td>
      <td>12345</td>
    </tr>
    <tr>
      <td>2</td>
      <td>Williams</td>
      <td>Electronics</td>
      <td>23456</td>
    </tr>
    <tr>
      <td>3</td>
      <td>Harry</td>
      <td>Electrical</td>
      <td>34567</td>
    </tr>
    <tr>
      <td>4</td>
      <td>Rick</td>
      <td>Civil</td>
      <td>45678</td>
    </tr>
</table>

</body>
</html>
```

Day	Seminar		
	Schedule		Topic
	Begin	End	
Monday	8:00 a.m.	5:00 p.m.	Introduction to XML
			Validity: DTD and Relax NG
Tuesday	8:00 a.m.	11:00 a.m.	XPath
	11:00 a.m.	2:00 p.m.	
	2:00 p.m.	5:00 p.m.	XSL Transformations
Wednesday	8:00 a.m.	12:00 p.m.	XSL Formatting Objects

-

```html
<!DOCTYPE html>
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    }
    th {
      background-color: #f2f2f2;
    }
  </style>
</head>
<body>

<table>
  <tr>
    <th colspan="2">Seminar</th>
    <th colspan="2">Schedule</th>
    <th rowspan="2">Topic</th>
  </tr>
  <tr>
    <th>Day</th>
    <th>Begin</th>
    <th>End</th>
```

```
      </tr>
      <tr>
        <td>Monday</td>
        <td>8:00 a.m.</td>
        <td>5:00 p.m.</td>
        <td>Introduction to XML</td>
      </tr>
      <tr>
        <td></td>
        <td></td>
        <td></td>
        <td>Validity: DTD and Relax NG</td>
      </tr>
      <tr>
        <td>Tuesday</td>

        <td>8:00 a.m.</td>
        <td>11:00 a.m.</td>
        <td>XPath</td>

      </tr>
      <tr>
        <td></td>
        <td>11:00 a.m.</td>
        <td>2:00 p.m.</td>
        <td></td>
      </tr>
      <tr>
        <td></td>
        <td>2:00 p.m.</td>
        <td>5:00 p.m.</td>
        <td>XSL Transformations</td>
      </tr>
      <tr>
        <td>Wednesday</td>
        <td>8:00 a.m.</td>
        <td>12:00 p.m.</td>
        <td>XSL Formatting Objects</td>
      </tr>
    </table>

  </body>
```

</html>

Procedure/Program:

Result/Output:

Analysis/Conclusion:

Task # 2:

Create the following web page using HTML Semantic Elements, i.e., section, aside, article, nav, header, footer, etc. Your web page must look similar to the following example.

Pakistan Economy

A look at the economic landscape of Pakistan

Overview   Sectors   Challenges   Future

Current Economic Situation

Pakistan's economy is currently facing a number of challenges, including inflation, debt, and a trade deficit. The government is taking steps to address these issues...

Key Economic Indicators

Here are some important economic indicators for Pakistan:

- GDP Growth: (Insert Data)
- Inflation Rate: (Insert Data)
- Unemployment Rate: (Insert Data)

Major Industries

Pakistan has several important industries, including textiles, agriculture, and manufacturing...

Related Resources

- Ministry of Finance
- State Bank of Pakistan
- World Bank Data

Procedure/Program:

Result/Output:

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Pakistan Economy</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 0;

            padding: 0;

        }

        header, nav, section, aside, footer {

            padding: 20px;

            margin: 10px;

        }

        header {

            text-align: center;

        }

        nav {

            background-color: #333;

            color: white;

            text-align: center;

        }

        nav a {
```

```
        color: white;

        margin: 0 15px;

        text-decoration: none;

      }

      section {

        background-color: #f4f4f4;

      }

      aside {

        background-color: #e2e2e2;

      }

      footer {

        text-align: center;

        background-color: #333;

        color: white;

      }

    </style>

</head>

<body>

  <header>

    <h1>Pakistan Economy</h1>

    <p>A look at the economic landscape of Pakistan</p>

  </header>

  <nav>

    <a href="#">Overview</a>

    <a href="#">Sectors</a>
```

```html
      <a href="#">Challenges</a>

      <a href="#">Future</a>

   </nav>

   <main>

      <section>

         <article>

            <h2>Current Economic Situation</h2>

            <p>Pakistan's economy is currently facing a number of challenges, including inflation, debt,
and a trade deficit. The government is taking steps to address these issues...</p>

         </article>

         <article>

            <h2>Key Economic Indicators</h2>

            <p>Here are some important economic indicators for Pakistan:</p>

            <ul>

               <li>GDP Growth: (Insert Data)</li>

               <li>Inflation Rate: (Insert Data)</li>

               <li>Unemployment Rate: (Insert Data)</li>

            </ul>

         </article>

         <article>

            <h2>Major Industries</h2>

            <p>Pakistan has several important industries, including textiles, agriculture, and
manufacturing...</p>

         </article>

      </section>

      <aside>
```

```html
        <h2>Related Resources</h2>

        <ul>

          <li><a href="#">Ministry of Finance</a></li>

          <li><a href="#">State Bank of Pakistan</a></li>

          <li><a href="#">World Bank Data</a></li>

        </ul>

      </aside>

  </main>

  <footer>

    <p>© 2025 Pakistan Economy Updates</p>

  </footer>

</body>

</html>
```

Analysis/Conclusion:

Pakistan Economy

A look at the economic landscape of Pakistan

Current Economic Situation

Pakistan's economy is currently facing a number of challenges, including inflation, debt, and a trade deficit. The government is taking steps to address these issues...

Key Economic Indicators

Here are some important economic indicators for Pakistan:

- GDP Growth: (Insert Data)
- Inflation Rate: (Insert Data)
- Unemployment Rate: (Insert Data)

Major Industries

Pakistan has several important industries, including textiles, agriculture, and manufacturing...

Related Resources

- Ministry of Finance
- State Bank of Pakistan
- World Bank Data