WT Lab Exp No.3

**Problem Statement:**

Design the XML document to store the information of the employees of any business organization and demonstrate the use of:

a) DTD

b) XML Schema and display the content in (e.g., tabular format) by using CSS/XSL.

index.xml:-

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE employees SYSTEM "employees.dtd">

<employees>

    <employee>

        <id>1</id>

        <name>John Doe</name>

        <position>Manager</position>

        <department>HR</department>

        <salary>60000</salary>

    </employee>

    <employee>

        <id>2</id>

        <name>Jane Smith</name>

        <position>Software Engineer</position>

        <department>Engineering</department>

        <salary>75000</salary>

    </employee>

    <!-- Add more employee records as needed -->

</employees>

employees.dtd:-

<!ELEMENT employees (employee+)>

<!ELEMENT employee (id, name, position, department, salary)>

<!ELEMENT id (#PCDATA)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT position (#PCDATA)>

<!ELEMENT department (#PCDATA)>

<!ELEMENT salary (#PCDATA)>

employees.xsd:-

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

    <xs:element name="employees">

        <xs:complexType>

            <xs:sequence>

                <xs:element name="employee" type="employeeType" minOccurs="1" maxOccurs="unbounded"/>

            </xs:sequence>

        </xs:complexType>

    </xs:element>

    <xs:complexType name="employeeType">

        <xs:sequence>

            <xs:element name="id" type="xs:integer"/>

            <xs:element name="name" type="xs:string"/>

            <xs:element name="position" type="xs:string"/>

            <xs:element name="department" type="xs:string"/>

            <xs:element name="salary" type="xs:decimal"/>

        </xs:sequence>

    </xs:complexType>

</xs:schema>

employees.xsl:-

<?xml version="1.0" encoding="UTF-8"?>

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

  <xsl:template match="/">

    <html>

      <head>

        <style>

          table {

            font-family: Arial, sans-serif;

            border-collapse: collapse;

            width: 100%;

          }

          th, td {

            border: 1px solid #dddddd;

            text-align: left;

            padding: 8px;

          }

          th {

            background-color: #f2f2f2;

          }

        </style>

      </head>

      <body>

        <h2>Employee Information</h2>

        <table>

          <tr>

            <th>ID</th>

            <th>Name</th>

            <th>Position</th>

            <th>Department</th>

            <th>Salary</th>

          </tr>

          <xsl:for-each select="employees/employee">

            <tr>

              <td><xsl:value-of select="id"/></td>

              <td><xsl:value-of select="name"/></td>

              <td><xsl:value-of select="position"/></td>

              <td><xsl:value-of select="department"/></td>

              <td><xsl:value-of select="salary"/></td>

            </tr>

          </xsl:for-each>

        </table>

      </body>

    </html>

  </xsl:template>

</xsl:stylesheet>

OUTPUT:-

