Display XML data in the XHTML table (Data Island).

**Procedure:**

1. Write XML code in HTML using <xml> element.
2. Use datasrc and DATAFLD attributes of table elements to organize data into table.
3. Run the html program to observe the output.

**Source Code:**

<html>

<body>

<xml id="students">

<?xml version ="1.0"?>

<class>

<student>

<sno>123</sno>

<sname>abc</sname>

</student>

<student>

<sno>124</sno>

<sname>xyz</sname>

</student>

<student>

<sno>125</sno>

<sname>pqr</sname>

</student>

</class>

</xml>

<table datasrc="#students" border="2">

<tr>

<td><div DATAFLD="sno"></div></td>

<td><div DATAFLD="sname"></div></td>

</tr>

</table>

</body>

</html>

Validate XML documents using DTD & XML Schema (XSD).

**Procedure:**

1. Write an XML file containing the elements and data.
2. Include DTD in the XML file.
3. Write XSD for validating the XML schema and call that in XML file.
4. Input these files to the xmlcheck validation tool .
5. Observe the output.

**Source Code:**

**DTD file:**

<?xml version="1.0"?>

<!DOCTYPE student

[

<!ELEMENT student (sname,address,marks)>

<!ELEMENTsname (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT marks (#PCDATA)>

]>

<student>

<sname>ram</sname>

<address>gnt</address>

<marks>70</marks>

</student>

**XML File:**

<?xml version="1.0"?>

<student xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xsi:noNamespaceSchemaLocation="student.xsd">

<sname>ram</sname>

<address>gnt</address>

<marks>70</marks>

</student>

**XSD:**

<?xml version="1.0"?>

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

<xs:element name="student">

<xs:complex Type>

<xs:sequence>

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

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

<xs:element name="marks" type="xs:integer">

</xs:sequence>

</xs:complex Type>

</xs:element>

</xs:schema>

Display XML data in the XHTML table using XSL.

**Procedure:**

1. Create an XML file containing elements and data.
2. Crate an XSL file containing the styles that are to be applied on xml data.
3. Run the XML file and observe the output.

**Source Code:**

**XML:**

<?xml version="1.0"?>

<?xml-stylesheet type="text/xsl" href="stu.xsl"?>

<stu\_info>

<stu Gender="m">

<name>abc</name>

<rollno>101</rollno>

<city>gnt</city>

</stu>

<stu Gender="f">

<name>xyz</name>

<rollno>102</rollno>

<city>hyd</city>

</stu>

</stu\_info>

**XSL:**

**tu.xsl**

<?xml version="1.0"?>

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

<xsl:template match="/">

<html>

<body>

<h1>STUDENT INFORMATION</h1>

<table border="3">

<td>

<th>name</th><br>

<th>rollno</th><br>

<th>gender</th></td>

<xsl:for-each select="stu-info/stu">

<td>

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

<th><xsl:value-of select="rollno"/></th>

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

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>