LAB 9

OBJECTIVE

To be familiar with XML and XSL

DESCRIPTION

XML stands for Extensible Markup Language. It is a text-based markup language derived from Standard Generalized Markup Language (SGML). XML tags identify the data and are used to store and organize the data, rather than specifying how to display it like HTML tags, which are used to display the data.

XSL is a family of recommendations for defining XML document transformation and presentation. It consists of three parts:

XSL Transformations (XSLT): a language for transforming XML

The XML Path Language (XPath): an expression language used by XSLT (and many other languages) to access or refer to parts of an XML document

XSL Formatting Objects (XSL-FO): an XML vocabulary for specifying formatting semantics

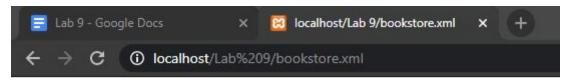
XML

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="bookstore.xsl"?>
<bookstore>
     <book>
           <title>Machine Learning</title>
           <price>< 5600</price>
           <author>Tirtha Raj Poudel</author>
           <isbn>55674</isbn>
     </book>
     <book>
           <title>Neural Networks</title>
           <price>
  3400</price>
           <author>Tirtha's Son</author>
           <isbn>38992</isbn>
     </book>
     <book>
           <title>Recipe of Potato</title>
           <price>
▼ 1200</price>
           <author>Mrs. Poudel</author>
           <isbn>43216</isbn>
     </book>
</bookstore>
```

XSL

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"</pre>
             version="1.0">
   <xsl:template match="/">
   <html>
   <body>
      <h2>Book List</h2>
      Title
             Price
             Author
             ISBN
         <xsl:for-each select="bookstore/book">
         <xsl:value-of select="title"/>
             <xsl:value-of select="price"/>
             <xsl:value-of select="author"/>
             <xsl:value-of select="isbn"/>
         </xsl:for-each>
      </body>
   </html>
   </xsl:template>
</xsl:stylesheet>
```

OUTPUT



Book List

Title	Price	Author	ISBN
Machine Learning	रू 5 <u>600</u>	Tirtha Raj Poudel	55674
Neural Networks	रू 3400	Tirtha's Son	38992
Recipe of Potato	रू 1200	Mrs. Poudel	43216

SUMMARY

In this lab, we got familiar with XML and XSL. We created an XML file to store some data and then wrote a XSL code to render the XML data and style it. XSL syntax was really complex to deal with at first.

COMMENT