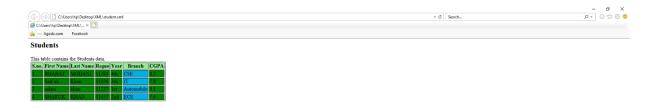# Week 10

XML implementation

Student.xsl file

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

<!-- xsl stylesheet declaration with xsl namespace:

Namespace tells the xlst processor about which

element is to be processed and which is used for output purpose only

-->

<xsl:stylesheet version = "1.0"

xmlns:xsl = "http://www.w3.org/1999/XSL/Transform">

<!-- xsl template declaration:

template tells the xlst processor about the section of xml

document which is to be formatted. It takes an XPath expression.

In our case, it is matching document root element and will

tell processor to process the entire document with this template.

-->
```
  <xsl:template match = "/">
    <!-- HTML tags

      Used for formatting purpose. Processor will skip them and
browser

        will simply render them.

    -->
    <html>
      <body>
        <h2>Students</h2>
                This table contains the Students data.
        <table border = "1">
          <tr bgcolor = "lightgreen">
            <th>S.no.</th>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Regno</th>
            <th>Year</th>
                        <th>Branch</th>
            <th>CGPA</th>
```

```
        </tr>
        <!-- for-each processing instruction
        Looks for each element matching the XPath expression
        -->
        <xsl:for-each select="class/Student">
          <tr>
            <td bgcolor="green">
              <!-- value-of processing instruction
              process the value of the element matching the
XPath expression
              -->
              <xsl:value-of select = "@S.no."/>
            </td>
            <td bgcolor="green"><xsl:value-of select =
"firstname"/></td>
            <td bgcolor="green"><xsl:value-of select =
"lastname"/></td>
            <td bgcolor="green"><xsl:value-of select =
"Regno"/></td>
            <td bgcolor="green"><xsl:value-of select =
"Year"/></td>
                              <td bgcolor="lighblue"><xsl:value-of
select = "Branch"/></td>
            <td bgcolor="green"><xsl:value-of select =
"CGPA"/></td>
```

```
            </tr>
        </xsl:for-each>
      </table>
    </body>
  </html>
</xsl:template>
</xsl:stylesheet>
```

Student.xml

```
?xml version = "1.0"?>
<?xml-stylesheet type = "text/xsl" href = "Student.xsl"?>
<class>
  <Student S.no. = "1">
    <firstname>BHARAT</firstname>
    <lastname>MODANI</lastname>
    <Regno>11283</Regno>
    <Year>4th</Year>
      <Branch>CSE</Branch>
    <CGPA>8.2</CGPA>
  </Student>
  <Student S.no. = "2">
    <firstname>Saif ali</firstname>
    <lastname>Khan</lastname>
```

```xml
        <Regno>11056</Regno>
      <Year>3th</Year>
        <Branch>IT</Branch>
      <CGPA>7.8</CGPA>
    </Student>
    <Student S.no. = "3">
      <firstname>salam </firstname>
      <lastname>khan</lastname>
      <Regno>11237</Regno>
      <Year>1st</Year>
        <Branch>Automobile</Branch>
      <CGPA>9.1</CGPA>
    </Student>
    <Student S.no. = "4">
      <firstname>SHARUK </firstname>
      <lastname>KHAN</lastname>
      <Regno>11457</Regno>
      <Year>2nd</Year>
        <Branch>ECE</Branch>
      <CGPA>7.6</CGPA>
    </Student>
  </class>
```