

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SUBJECT CODE: 19CS2107
ENTERPRISE PROGRAMMING WORKBOOK

XSLT #3

Date of the Session: ____/____/____
_____ to _____

Time of the Session:

Prerequisite:

- ☐ **General Idea on HTML Tags.**
- ☐ **Idea on XML documents and Tags**
- ☐ **Basic idea on XML Stylesheet Language Transformations**

Pre-Lab Task:

Create XML document which store the information about Library/Bookstore.
more than 5 books.

```
<?xml version="1.0" encoding="UTF-8"?>
<books>
  <book>
    <title>Web Programming</title>
    <author> Chrisbates</author>
    <publisher>P Wiley</publisher>
    <edition>3</edition>
    <price> 300</price>
  </book>
  <book>
    <title>Python Programming</title>
    <author> G.V.Rossum</author>
    <publisher>Pypi</publisher>
    <edition>3</edition>
    <price> 500</price>
  </book>
  <book>
    <title>Java Programming</title>
    <author> J.Gosling</author>
    <publisher> Oracle</publisher>
    <edition>8</edition>
    <price> 800</price>
  </book>
  <book>
    <title>Dynamic Programming</title>
    <author>Au Cris</author>
    <publisher> Aakash</publisher>
    <edition> 7</edition>
    <price> 750</price>
  </book>
</books>
```

```
    <title> R Programming</title>
    <author>A John</author>
    <publisher> Crisit</publisher>
    <edition>2</edition>
    <price> 930</price>
  </book>
</books>
```

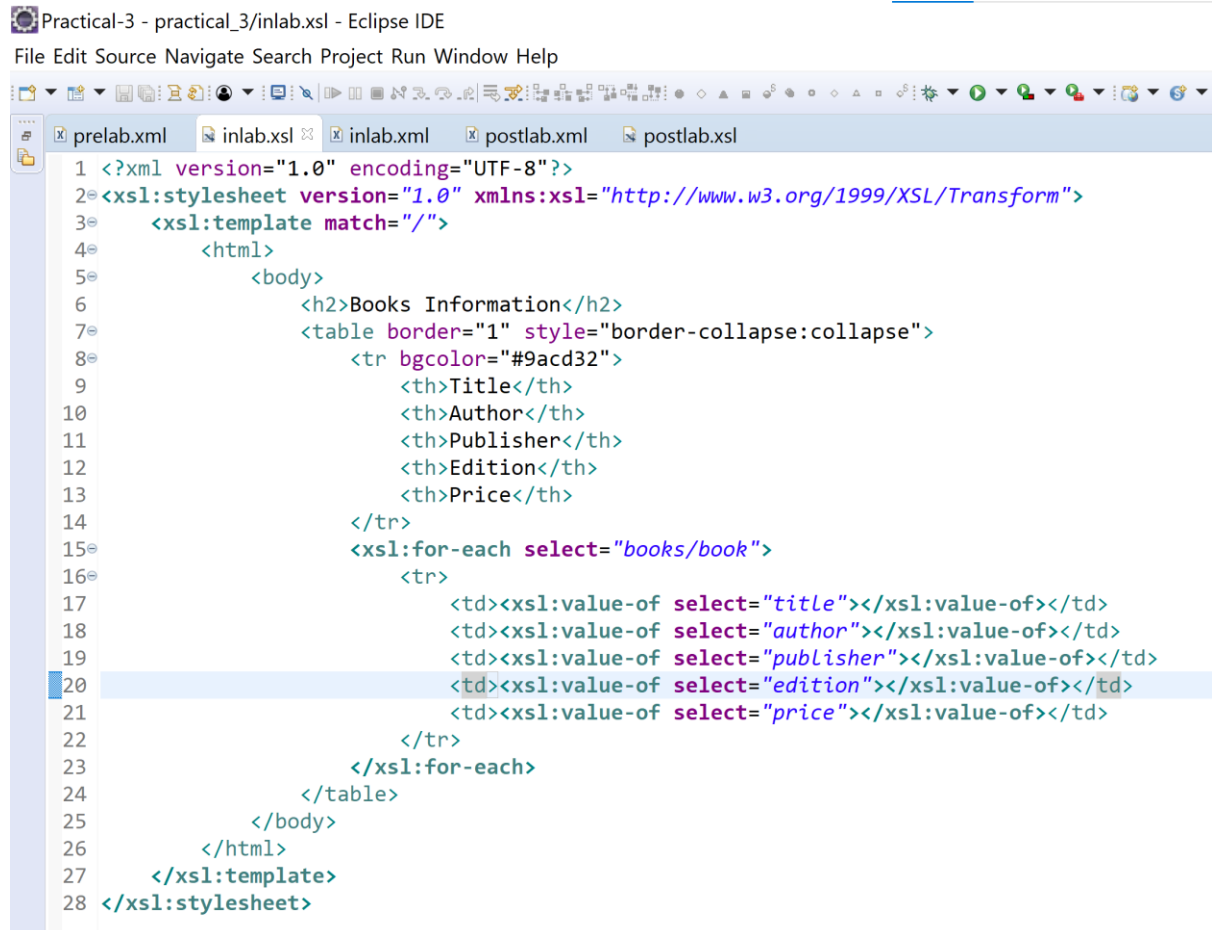
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼ <books>
  ▼ <book>
    <title>Web Programming</title>
    <author> Chrisbates</author>
    <publisher>P Wiley</publisher>
    <edition>3</edition>
    <price> 300</price>
  </book>
  ▼ <book>
    <title>Python Programming</title>
    <author> G.V.Rossum</author>
    <publisher>Pypi</publisher>
    <edition>3</edition>
    <price> 500</price>
  </book>
  ▼ <book>
    <title>Java Programming</title>
    <author> J.Gosling</author>
    <publisher> Oracle</publisher>
    <edition>8</edition>
    <price> 800</price>
  </book>
  ▼ <book>
    <title>Dynamic Programming</title>
    <author>Au Cris</author>
    <publisher> Aakash</publisher>
    <edition> 7</edition>
    <price> 750</price>
  </book>
  ▼ <book>
    <title> R Programming</title>
    <author>A John</author>
    <publisher> Crisit</publisher>
    <edition>2</edition>
    <price> 930</price>
  </book>
</books>
```

In Lab Task:

1. Create XML document which store the information about Library/Bookstore. more than 5 books. to transform XML documents into other formats (like transforming XML into HTML).

XSL FILE



```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
3   <xsl:template match="/">
4     <html>
5       <body>
6         <h2>Books Information</h2>
7         <table border="1" style="border-collapse: collapse">
8           <tr bgcolor="#9acd32">
9             <th>Title</th>
10            <th>Author</th>
11            <th>Publisher</th>
12            <th>Edition</th>
13            <th>Price</th>
14          </tr>
15          <xsl:for-each select="books/book">
16            <tr>
17              <td><xsl:value-of select="title"></xsl:value-of></td>
18              <td><xsl:value-of select="author"></xsl:value-of></td>
19              <td><xsl:value-of select="publisher"></xsl:value-of></td>
20              <td><xsl:value-of select="edition"></xsl:value-of></td>
21              <td><xsl:value-of select="price"></xsl:value-of></td>
22            </tr>
23          </xsl:for-each>
24        </table>
25      </body>
26    </html>
27  </xsl:template>
28 </xsl:stylesheet>
  
```

XML FILE

```

<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="inlab.xsl"?>
<books>
  <book>
    <title>Web Programming</title>
    <author> Chrisbates</author>
    <publisher>P Wiley</publisher>
    <edition>3</edition>
    <price> 300</price>
  </book>
  <book>
    <title>Python Programming</title>
    <author> G.V.Rossum</author>
  </book>
</books>
  
```

```
<publisher>Pypi</publisher>
<edition>3</edition>
<price> 500</price>
</book>
<book>
  <title>Java Programming</title>
  <author> J.Gosling</author>
  <publisher> Oracle</publisher>
  <edition>8</edition>
  <price> 800</price>
</book>
<book>
  <title>Dynamic Programming</title>
  <author>Au Cris</author>
  <publisher> Aakash</publisher>
  <edition> 7</edition>
  <price> 750</price>
</book>
<book>
  <title> R Programming</title>
  <author>A John</author>
  <publisher> Crisit</publisher>
  <edition>2</edition>
  <price> 930</price>
</book>
</books>
```

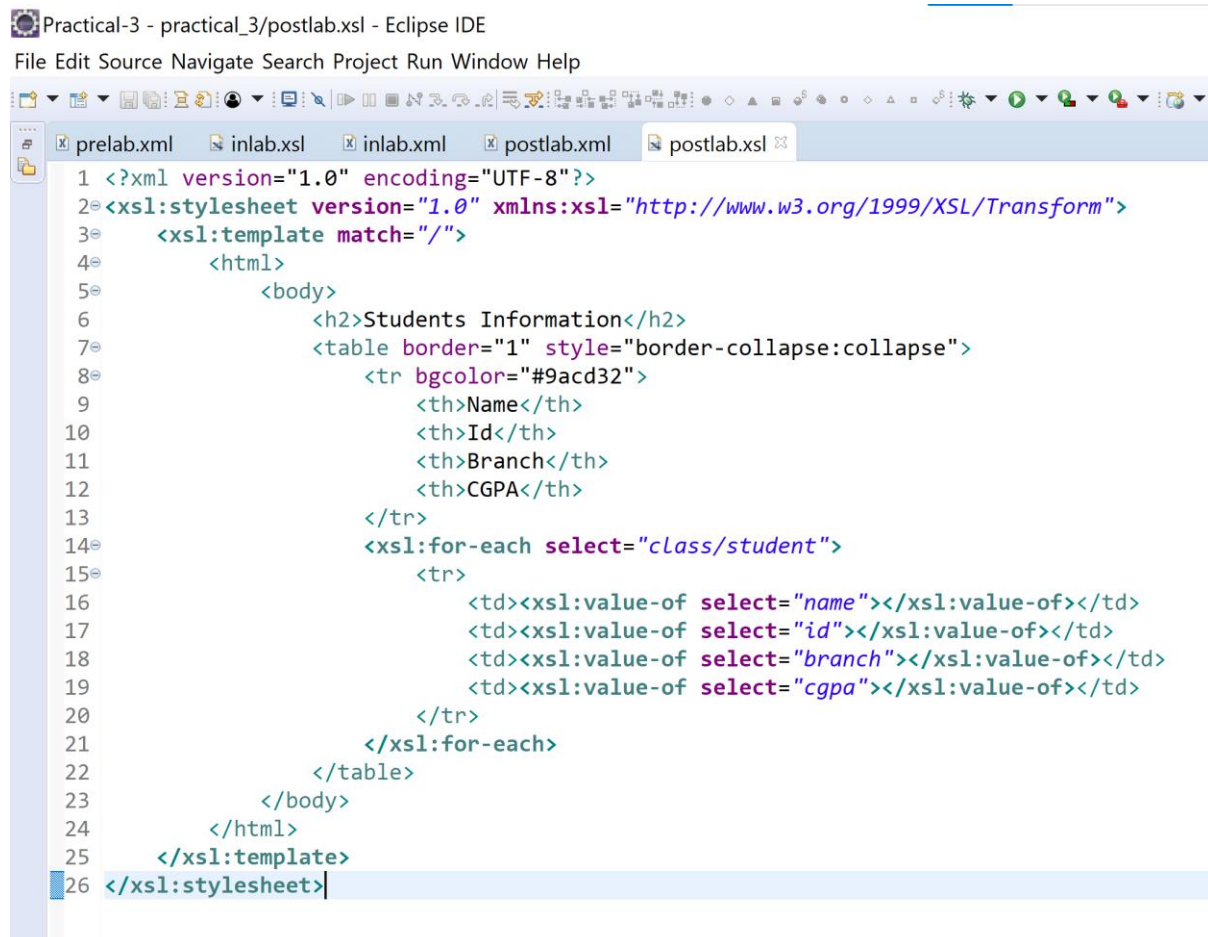
OUTPUT

Books Information

Title	Author	Publisher	Edition	Price
Web Programming	Chrisbates	P Wiley	3	300
Python Programming	G.V.Rossum	Pypi	3	500
Java Programming	J.Gosling	Oracle	8	800
Dynamic Programming	Au Cris	Aakash	7	750
R Programming	A John	Crisit	2	930

Post Lab Task:

1. Creating the XML file that contains the information about five students and displaying the XML file using XSLT.

XSL FILE


```

Practical-3 - practical_3/postlab.xsl - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help

prelab.xml inlab.xml inlab.xml postlab.xml postlab.xsl
1 <?xml version="1.0" encoding="UTF-8"?>
2 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
3   <xsl:template match="/">
4     <html>
5       <body>
6         <h2>Students Information</h2>
7         <table border="1" style="border-collapse: collapse">
8           <tr bgcolor="#9acd32">
9             <th>Name</th>
10            <th>Id</th>
11            <th>Branch</th>
12            <th>CGPA</th>
13          </tr>
14          <xsl:for-each select="class/student">
15            <tr>
16              <td><xsl:value-of select="name"></xsl:value-of></td>
17              <td><xsl:value-of select="id"></xsl:value-of></td>
18              <td><xsl:value-of select="branch"></xsl:value-of></td>
19              <td><xsl:value-of select="cgpa"></xsl:value-of></td>
20            </tr>
21          </xsl:for-each>
22        </table>
23      </body>
24    </html>
25  </xsl:template>
26 </xsl:stylesheet>
  
```

XML FILE

```

<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="postlab.xsl"?>
<class>
  <student>
    <name>RADHAKRISHNA</name>
    <id>190031187</id>
    <branch>CSE</branch>
    <cgpa>9.67</cgpa>
  </student>
  <student>
    <name>PAVAN</name>
    <id>190031134</id>
    <branch>CSE</branch>
    <cgpa>9.00</cgpa>
  </student>
</class>
  
```

```
</student>
<student>
  <name>MOHITH</name>
  <id>190031249</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
<student>
  <name>NAVNEET</name>
  <id>190031177</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
<student>
  <name>KRISHNA VAMSI</name>
  <id>190031527</id>
  <branch>CSE</branch>
  <cgpa>9.00</cgpa>
</student>
</class>
```

OUTPUT

Students Information

Name	Id	Branch	CGPA
RADHAKRISHNA	190031187	CSE	9.67
PAVAN	190031134	CSE	9.00
MOHITH	190031249	CSE	9.00
NAVNEET	190031177	CSE	9.00
KRISHNA VAMSI	190031527	CSE	9.00