

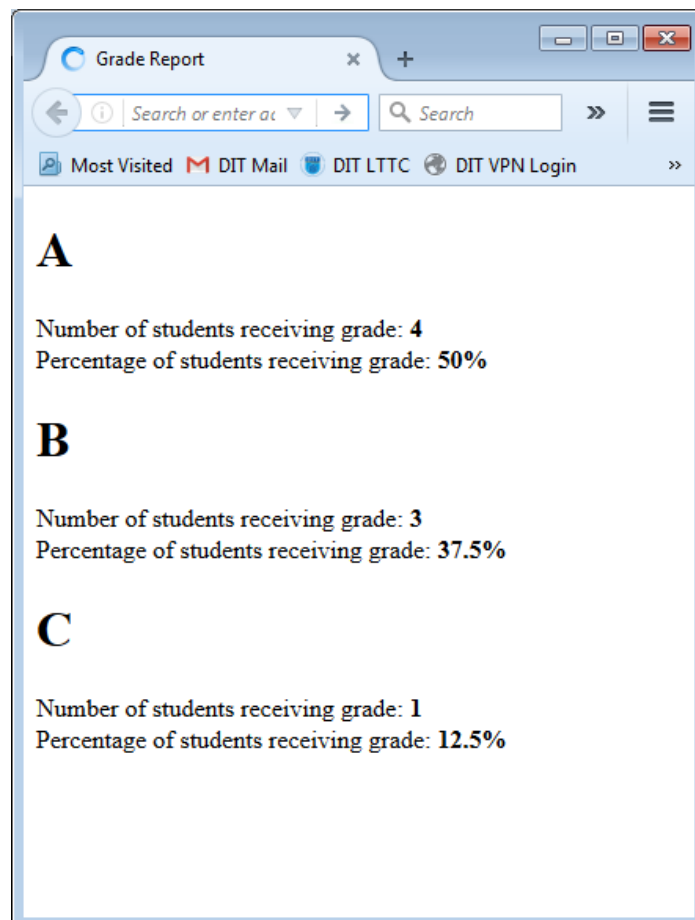
Enterprise Systems & Architecture

Lab 7 (Weeks 5/6): XSL Exercises – More XSL

Note: You can use the next couple of weeks to complete these exercises and to catch up on any other incomplete labsheets.

Exercise 1

- Using the *students.xml* file below, write an XSL stylesheet called *grades.xsl* that produces the following web page when the xml file is loaded by IE.
- The first part of the stylesheet is given below.
- You should use the following XSLT features in your template:
 - A template called *print_grade*
 - `xsl:param`
 - `xsl:variable`
 - `count()`
 - a predicate
 - `div`



students.xml

```
<?xml version="1.0"?>

<class>
<student>
    <first-name>Jane</first-name>
    <last-name>Doe</last-name>
    <grade>A</grade>
</student>
<student>
    <first-name>John</first-name>
    <last-name>Smith</last-name>
    <grade>B</grade>
</student>
<student>
    <first-name>Harry</first-name>
    <last-name>Grandson</last-name>
    <grade>A</grade>
</student>
<student>
    <first-name>Lacy</first-name>
    <last-name>Jones</last-name>
    <grade>B</grade>
</student>
<student>
    <first-name>Uln</first-name>
    <last-name>Douglas</last-name>
    <grade>C</grade>
</student>
<student>
    <first-name>Ambrose</first-name>
    <last-name>Tyler</last-name>
    <grade>B</grade>
</student>
<student>
    <first-name>Roger</first-name>
    <last-name>Clemens</last-name>
    <grade>A</grade>
</student>
<student>
    <first-name>Monroe</first-name>
    <last-name>Hamburger</last-name>
    <grade>A</grade>
</student>
</class>
```

grades.xsl

```
<?xml version="1.0"?>

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

<!-- your code goes here -->

<xsl:template match="/">
<html><head><title>Grade Report</title></head><body>

    <xsl:call-template name="print_grade">
        <xsl:with-param name="target_grade" select="'A'"/>
        <xsl:with-param name="list" select="class"/>
    </xsl:call-template>
    <p/>
    <xsl:call-template name="print_grade">
        <xsl:with-param name="target_grade" select="'B'"/>
        <xsl:with-param name="list" select="class"/>
    </xsl:call-template>
    <p />
    <xsl:call-template name="print_grade">
        <xsl:with-param name="target_grade" select="'C'"/>
        <xsl:with-param name="list" select="class"/>
    </xsl:call-template>
    <p />
</body></html>

</xsl:template>
</xsl:stylesheet>
```

Exercise 2

- In the Brightspace lab folder, there is an XML file called *shipment.xml*. There is also an XSL stylesheet called *shipment.xsl*. Add to the XSL stylesheet so that when the XML file is loaded using IE, the following presentation is displayed in the browser...

Shipment Number: 12345					
Consignor: DVDsRUs			Consignee: Ola Nordmann		
Unit 56			Langgt 23		
Ballyclockin Buiness Park			4000 Stavanger		
Dublin			Norway		
Ireland					
Summary:					
Total number of items: 3					
Total Weight: 300 Grams					
Average Weight Per Item Line: 100					
Total quantity: 6					
Sequence ID		Title	Note	Quantity	Price Line Total
1	001	Taxi Driver	Special Edition 1	1	2.50 2.50
2	002	Harry Potter and The Deathly Hallows Part I		2	15.00 30.00
3	003	Night of the Museum 2		3	12.00 36.00

Exercise 3

Instead of using the browser to transform the xml using the xsl, use the built-in Notepad++ XML transformer and/or the following web application (link below). In both cases you should be able to view the resulting output document of the XSLT processor.

Notepad++: With the xml file open in the editor tab choose *Plugins->XML Tools->XSL Transformation*. It will ask you for the location of the XSLT stylesheet. Click *Transform* and Notepad++ will show the resulting document in a new tab.

Online Web App:

www.utilities-online.info/xsltransformation

Paste your XML and XSL into the text boxes provided and click *Transform XML with XSL*. You will see the resulting output in the text box below the button.