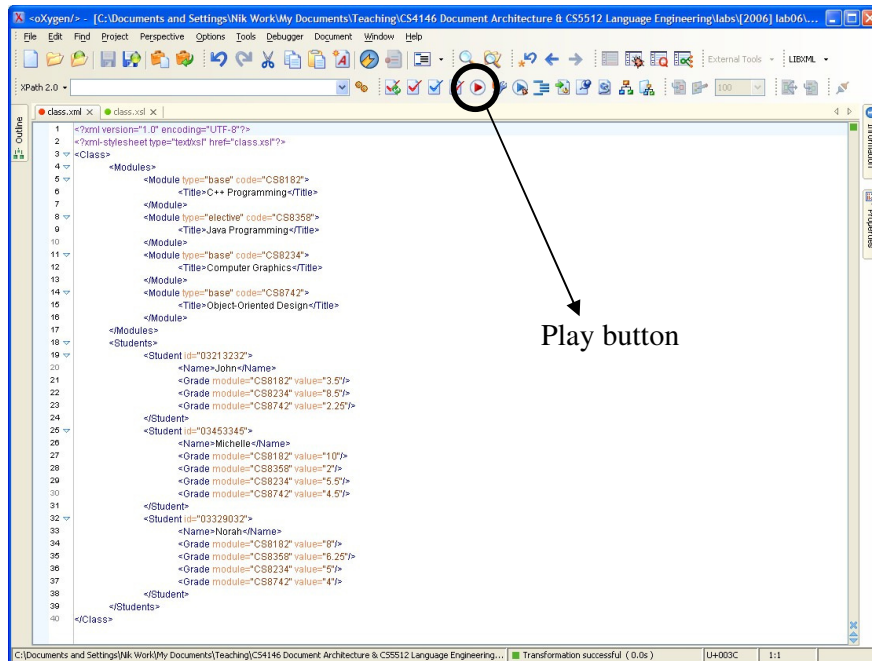


## XSLT

**Step 1.** Download **class.xml** and **class.xsl** from the module's website (week 11).

**Step 2.** Open the files **class.xml**, **class.xsl** in Oxygen. In order to apply the XSLT stylesheet to the XML file, **class.xml** must be the active document in Oxygen. Then you need to press the “Play” button.



**Task A.** Make sure you understand **class.xsl**.

**Task B.** Write another XSLT stylesheet for **class2.xml** that generates XML output and copies the `'Students'` element to the output together with all its successor nodes and their attributes, i.e. makes a copy of the whole sub-tree with a root `'Students'`.

**Optional:** Use the `<xsl:output>` element with attributes **method** and **indent**. Experiment with different values of these attributes as well as with other attributes of `<xsl:output>`.

**Task C.** Write a third XSLT stylesheet that transforms **class.xml** into **class\_short.xml** (see below). The XSLT stylesheet should be generic, i.e. it should be applicable to other XML files with the same structure as **class.xml**.

Note that the *Student* elements are copied from the input file to the output file without including their parent element *Students*. For each student only the grades greater than or equal to 8 are included in **class\_short.xml**.

#### **class\_short.xml**

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

<Class>
  <Student id="03213232">
    <Name>John</Name>
    <Grade module="CS8234" value="8.5"/>
  </Student>
  <Student id="03453345">
    <Name>Michelle</Name>
    <Grade module="CS8182" value="10"/>
  </Student>
  <Student id="03329032">
    <Name>Norah</Name>
    <Grade module="CS8182" value="8"/>
  </Student>
</Class>
```