INFO-H-509
Exercises 3

XSLT

Main XSLT Elements

```
<xsl:stylesheet version="2.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns="http://www.w3.org/1999/xhtml">

  <xsl:template match="Store">
    <xsl:apply-templates select="Discounts" />
  </xsl:template>
</xsl:stylesheet>
```

Structure

- Control structures:

```
<xsl:if test="xpath">
<xsl:for-each select="xpath">
```

- Explicit constructors:

```
<xsl:element name="tagname">
<xsl:attribute name="attname">
```

Example 1: Discounts List

```
<xsl:stylesheet version="2.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns="http://www.w3.org/1999/xhtml">

  <xsl:template match="/">
    <discounts>
      <xsl:apply-templates select="//Store//Discount" />
    </discounts>
  </xsl:template>

  <xsl:template match="Discount">
    <discount value="{./discount_value}">
  </xsl:template>
</xsl:stylesheet>
```

Example 2: Discounts By Department

```xml
<xsl:stylesheet version="2.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns="http://www.w3.org/1999/xhtml">

  <xsl:template match="/">
    <discounts>
      <xsl:for-each select="Stores/Departments/
Department">
        <xsl:sort select="DepartmentName"/>
        <xsl:apply-templates select="." />
      </xsl:for-each>
    </discounts>
  </xsl:template>
```

Example 2: Discounts By Department

```
<xsl:template match="Department">
    <xsl:variable name="dnum" />
    <department name="{$dnum}">
        <xsl:apply-templates
            select="/Product[@dept=$dnum]/Discount" />
    </department>
</xsl:template>

<xsl:template match="Discount">
    <discount value="{./discount_value}">
</xsl:template>
</xsl:stylesheet>
```

Default Rules

- Recursively go through the document:

```
<xsl:template match="*|/">
    <xsl:apply-templates/>
</xsl:template>
```

- Output text and attributes:

```
<xsl:template match="text()|@">
    <xsl:value-of select="."/>
</xsl:template>
```

Default Rules

- Remove comments and processing instructions

```
<xsl:template
match="processing-instruction()|comment()"/>
```

How to use the tools…

```
>> java -jar infoh509_tp03_tool.jar <input-
xslt> <input-document> <output-document>
```