

INFO-H-509

Exercises 4

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

```
<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()"/>
```