

CSC343 Worksheet 11 Solution

June 30, 2020

1. a) Notes:

- XLST
 - Also means **Extensible Stylesheet Language for Transformation**
 - Allows to transform XML documents into HTML
 - Is another language
- XLST Basics

Syntax:

```
<? xml version = "1.0" encoding = "utf-8"?>
<xsl:stylesheet xmlns:xsl = "http://www.w3.org/1999/ISL/Transform">
...
</xsl:stylesheet>
```

- Templates

Example:

```
1  <? xml version = "1.0" encoding = "utf-8"?>
2  <xsl:stylesheet xmlns:xsl = "http://www.w3.org/1999/ISL/
   Transform">
3      <xsl:template match = "/">
4          <HTML>
5              <BODY>
6                  <B>This is text</b>
7              </body>
8          </html>
9      </xsl:template>
10 </xsl:stylesheet>
11
```

- Obtaining values from XML Data
 - value-of
 - * Is used to extract the value of a selected node.
 - * **Syntax:** <xsl value-of select = "*expression*" />

Example:

```

1      <? xml version = "1.0" encoding = "utf-8"?>
2      <xsl:stylesheet xmlns:xsl = "http://www.w3.org/1999/XSL/Transform">
3          <xsl:template match="/Movies/Movie">
4              <xsl:value-of select = "@title"/>
5          </xsl:template>
6      </xsl:stylesheet>
7

```

– Apply-templates

- * applies a `<xsl:template>` to the current element or to the current element's child nodes.

· `select='.'` means choose the current value

```

<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
<html>
<body>
<h2>My CD Collection</h2>
<xsl:apply-templates/>
</body>
</html>
</xsl:template>

<xsl:template match="cd">
<p>
<xsl:apply-templates select="title"/>
<xsl:apply-templates select="artist"/>
</p>
</xsl:template>

<xsl:template match="title">
Title: <span style="color:ff0000">
<xsl:value-of select="."/></span>
<br />
</xsl:template>

<xsl:template match="artist">
Artist: <span style="color:#00ff00">
<xsl:value-of select="."/></span>
<br />
</xsl:template>

</xsl:stylesheet>

```

My CD Collection

Title: Empire Burlesque
Artist: Bob Dylan

Title: Hide your heart
Artist: Bonnie Tyler

Title: Greatest Hits
Artist: Dolly Parton

Title: Still got the blues
Artist: Gary Moore

Title: Eros
Artist: Eros Ramazzotti

Title: One night only
Artist: Bee Gees

Title: Sylvias Mother
Artist: Dr.Hook

Title: Maggie May
Artist: Rod Stewart

Title: Romanza
Artist: Andrea Bocelli

Title: When a man loves a woman
Artist: Percy Sledge

Title: Black angel
Artist: Savage Rose

Title: 1999 Grammy Nominees
Artist: Many

Title: For the good times
Artist: Kenny Rogers

– For-loop in XSLT

- * **Syntax:** `<xsl:for-each select = "expression" > ... </xsl:for-each>`
- * Is easier to maintain and read than apply templates ^[1]

References:

- 1) StackOverflow, differences between for-each and templates in xsl?, link