

# CSC343 Worksheet 11 Solution

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## 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.

```

<?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>

```