CSC343 Worksheet 11 Solution

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1. a) **Notes:**

- XLST
 - Also means Extensible Stylesheet Language for Transformation
 - Allows to transform XML documentes 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:

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

Example:

- Apply-templates
 - * applies a <xls:template> to the current element or to the current element's child nodes.
 - · select='.' means choose the current value



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

```
<? xml version = "1.0" encoding = "utf-8" ?>
      <xsl:stylesheet xmlns:xsl =
 2)
              "http://www.w3.org/1999/XSL/Transform">
 3)
 4)
          <xsl:template match = "/">
 5)
              <xsl:for-each select = 'Stars/Star" />
 6)
 8)
                  <xsl:value-of select = "Name">

    Selected Value

9)
                  10)
              </xsl:for-each>
11)
              >
              <xsl:for-each select = "Stars/Star/Address" /*
12)
13)
                  <1.1>
                  <xsl:value-of select = "City">
14)
15)
                  </xsl:for-each>
16)
17)
              </xsl:template>
      </xsl:stylesheet>
```

References:

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

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