

# Task 605

## Exercise 1. Convert tags to attributes:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template match="/">
    <museums>
      <xsl:apply-templates />
    </museums>
  </xsl:template>
  <xsl:template match="museum">
    <museum>
      <xsl:attribute name="name">
        <xsl:value-of select="name" />
      </xsl:attribute>
      <xsl:attribute name="city">
        <xsl:value-of select="city" />
      </xsl:attribute>
      <xsl:attribute name="country">
        <xsl:value-of select="country" />
      </xsl:attribute>
    </museum>
  </xsl:template>
</xsl:stylesheet>
```

## Exercise 2. Convert some tags to attributes:

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

  <xsl:template match="/">
    <museums>
      <xsl:apply-templates />
    </museums>
  </xsl:template>
  <xsl:template match="museum">
    <museum>
      <name>
        <xsl:value-of select="name" />
      </name>
      <location>
        <xsl:attribute name="city">
          <xsl:value-of select="city" />
        </xsl:attribute>
        <xsl:attribute name="country">
          <xsl:value-of select="country" />
        </xsl:attribute>
      </location>
    </museum>
  </xsl:template>
</xsl:stylesheet>
```

```
</xsl:template>
</xsl:stylesheet>
```

### Exercise 3. Change the document structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template match="/">
    <cities>
      <xsl:apply-templates />
    </cities>
  </xsl:template>
  <xsl:template match="museum">
    <city>
      <name>
        <xsl:value-of select="city" />
      </name>
      <country>
        <xsl:value-of select="country" />
      </country>
      <museum>
        <xsl:value-of select="name" />
      </museum>
    </city>
  </xsl:template>
</xsl:stylesheet>
```

### Exercise 4. Change the structure of the document and some elements in attributes:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:strip-space elements="*" />
  <xsl:template match="/">
    <cities>
      <xsl:apply-templates />
    </cities>
  </xsl:template>
  <xsl:template match="museum">
    <city>
      <xsl:attribute name="name">
        <xsl:value-of select="city" />
      </xsl:attribute>
      <xsl:attribute name="country">
        <xsl:value-of select="country" />
      </xsl:attribute>
      <museum>
        <xsl:value-of select="name" />
      </museum>
    </city>
  </xsl:template>
</xsl:stylesheet>
```

```
        </museum>
    </city>
</xsl:template>
</xsl:stylesheet>
```

Exercise 5. Change the structure of the document and some labels in attributes:

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template match="/">
    <countries>
      <xsl:apply-templates />
    </countries>
  </xsl:template>
  <xsl:template match="museum">
    <country>
      <xsl:attribute name="name">
        <xsl:value-of select="country" />
      </xsl:attribute>
      <museum>
        <xsl:attribute name="museum">
          <xsl:value-of select="name" />
        </xsl:attribute>
        <xsl:attribute name="city">
          <xsl:value-of select="city" />
        </xsl:attribute>
      </museum>
    </country>
  </xsl:template>
</xsl:stylesheet>
```