14043-7-5E AID: 258164 | 15/10/2020

**Following show the program planning of the car problem:**

1. XML file with name “car.xml” and XSLT file with name car1.xsl.
2. Car.xml file contains details of car like engine, model, color, etc. when xml file run of web browsers at that time the details can be rendering.
3. Car1.xsl file contain styling code of the “car.xml” file.

**Following show the code of depreciation:**

Car1.xsl

<?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><head><title> Style sheet for hw7\_s5.xml</title></head>

<body style="text-align:center" bgcolor="#FF00FF">

<h2 style="text-align:center; font-size:35pt; font-family: monospace;"> CAR CATALOG </h2>

<table border="1" align="center" text-align="center">

<tr bgcolor="black">

<th style="text-align:center; color:white">MAKE</th>

<th style="text-align:center; color:white">MODEL</th>

<th style="text-align:center; color:white">YEAR</th>

<th style="text-align:center; color:white">COLOR</th>

<th style="text-align:center; color:white">ENGINE</th>

<th style="text-align:center; color:white">DOORS</th>

<th style="text-align:center; color:white">TRANSMISSION</th>

<th style="text-align:center; color:white">ACCESSORIES</th>

</tr>

<xsl:for-each select="catalog/car">

<tr bgcolor="#FFCCFF">

<td>

<xsl:value-of select="make"/>

</td>

<td>

<xsl:value-of select="model"/>

</td>

<td>

<xsl:value-of select="year"/>

</td>

<td>

<xsl:value-of select="color"/>

</td>

<td>

<xsl:value-of select="engine"/>

</td>

<td>

<xsl:value-of select="number\_of\_doors"/>

</td>

<td>

<xsl:value-of select="transmission\_type"/>

</td>

<td>

<xsl:value-of select="accessories"/>

</td>

</tr>

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>

Car.xml

<?xml version="1.0" encoding="UTF-8"?>

<?xml-stylesheet type="text/xsl" href="hw7\_s5.xsl"?>

<!-- Create a catalog root tag -->

<catalog>

<!-- FIRST INSTANCE OF THE CAR ELEMENT DEFINED IN XML SCHEMA -->

<car>

<make> Honda </make>

<model> S2000 </model>

<year> 2009 </year>

<color> Pink </color>

<engine>

Cylinders:<cylinders> 4 </cylinders>

Fuel System:<fuel\_system> Fuel Injected </fuel\_system>

</engine>

<number\_of\_doors> 4 </number\_of\_doors>

<transmission\_type> Manual </transmission\_type>

<accessories>

Radio:<radio> Yes </radio>

Air Conditioning: -<air\_conditioning> Yes </air\_conditioning>

Power Windows:<power\_windows> Yes </power\_windows>

Power Steering:<power\_steering> Yes </power\_steering>

Power Brakes:<power\_brakes> Yes </power\_brakes>

</accessories>

</car>

<!-- SECOND INSTANCE OF THE CAR ELEMENT DEFINED IN XML SCHEMA -->

<car>

<make> Honda </make>

<model> Fit </model>

<year> 2016 </year>

<color> White </color>

<engine>

Cylinders:<cylinders> 4 </cylinders>

Fuel System:<fuel\_system> Fuel Injected </fuel\_system>

</engine>

<number\_of\_doors> 4 </number\_of\_doors>

<transmission\_type> Automatic </transmission\_type>

<accessories>

Radio:<radio> Yes </radio>

Air Conditioning: -<air\_conditioning> Yes </air\_conditioning>

Power Windows:<power\_windows> Yes </power\_windows>

Power Steering:<power\_steering> Yes </power\_steering>

Power Brakes:<power\_brakes> Yes </power\_brakes>

</accessories>

</car>

<!-- THIRD INSTANCE OF THE CAR ELEMENT DEFINED IN XML SCHEMA -->

<car>

<make> Lexus </make>

<model> es300 </model>

<year> 1992 </year>

<color> Black </color>

<engine>

Cylinders:<cylinders> 6 </cylinders>

Fuel System:<fuel\_system> Fuel Injected </fuel\_system>

</engine>

<number\_of\_doors> 2 </number\_of\_doors>

<transmission\_type> Automatic </transmission\_type>

<accessories>

Radio:<radio> Yes </radio>

Air Conditioning: -<air\_conditioning> Yes </air\_conditioning>

Power Windows:<power\_windows> Yes </power\_windows>

Power Steering:<power\_steering> Yes </power\_steering>

Power Brakes:<power\_brakes> Yes </power\_brakes>

</accessories>

</car>

<!-- FOURTH INSTANCE OF THE CAR ELEMENT DEFINED IN XML SCHEMA -->

<car>

<make> Lexus </make>

<model> CT </model>

<year> 2016 </year>

<color> White </color>

<engine>

Cylinders:<cylinders> 4 </cylinders>

Fuel System:<fuel\_system> Fuel Injected </fuel\_system>

</engine>

<number\_of\_doors> 6 </number\_of\_doors>

<transmission\_type> Automatic </transmission\_type>

<accessories>

Radio:<radio> Yes </radio>

Air Conditioning: -<air\_conditioning> Yes </air\_conditioning>

Power Windows:<power\_windows> Yes </power\_windows>

Power Steering:<power\_steering> Yes </power\_steering>

Power Brakes:<power\_brakes> Yes </power\_brakes>

</accessories>

</car>

</catalog>

**Output of code:**

The output contain more than one car details , model number, making company name, color , engine accessories which is rendering from xml file.

