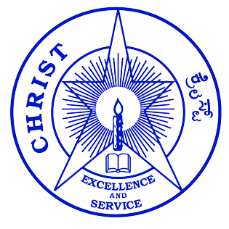
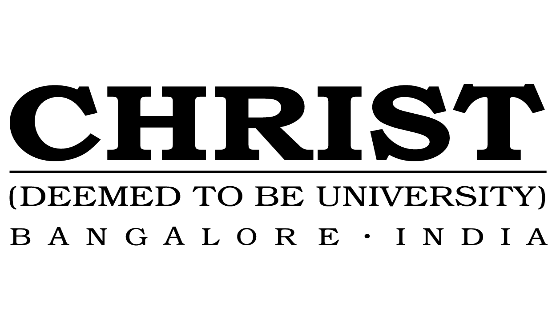
****

** Name : JOSANTH SMILAN A**

**Stream : I MCA-B**

**Reg No : 2347228**

**SHOP SMART**

HTML CODE :

<html>

<head>

<title>ShopSmart Products</title>

</head>

<body>

<h1>ShopSmart Product List</h1>

<table border="1">

<tr>

<th>ID</th>

<th>Name</th>

<th>Price</th>

<th>Quantity</th>

<th>Description</th>

</tr>

<tr>

<td>1</td>

<td>Laptops</td>

<td>350$</td>

<td>10</td>

<td>Asus Vivo Book</td>

</tr>

<tr>

<td>2</td>

<td>Mobiles</td>

<td>150$</td>

<td>50</td>

<td>Iphone 15 pro max</td>

</tr>

<tr>

<td>3</td>

<td>Electronics</td>

<td>550$</td>

<td>60</td>

<td>O Generak 1.5 ton Inverter A/C</td>

</tr>

<tr>

<td>4</td>

<td>Clothes</td>

<td>50$</td>

<td>120</td>

<td>Peter England T-SHIRTS</td>

</tr>

<tr>

<td>5</td>

<td>Speakers</td>

<td>250$</td>

<td>560</td>

<td>JBL 2000Amph Sound Bar</td>

</tr>

</table>

</body>

</html>

XML CODE :

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

<?xml-model href="" type="application/xml" schematypens="http://www.w3.org/2001/XMLSchema"?>

<?xml-model href="" type="application/xml-dtd"?>

<shopsmart>

<products>

<product>

<id>001</id>

<Name>Laptops</Name>

<price>350$</price>

<quantity>10</quantity>

<Description>Asus Vivo Book</Description>

</product>

<product>

<id>002</id>

<Name>Mobiles</Name>

<price>150$</price>

<quantity>50</quantity>

<Description>Iphone 15 pro max</Description>

</product>

<product>

<id>003</id>

<Name>Electronics</Name>

<price>550$</price>

<quantity>60</quantity>

<Description>O Generak 1.5 ton Inverter A/C</Description>

</product>

<product>

<id>004</id>

<Name>Clothes</Name>

<price>50$</price>

<quantity>120</quantity>

<Description>Peter England T-SHIRTS</Description>

</product>

<product>

<id>005</id>

<Name>Speakers</Name>

<price>250$</price>

<quantity>560</quantity>

<Description>JBL 2000Amph Sound Bar</Description>

</product>

</products>

</shopsmart>

XSD CODE :

<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="shopsmart">

<xs:complexType>

<xs:sequence>

<xs:element name="products">

<xs:complexType>

<xs:sequence>

<xs:element name="product" maxOccurs="unbounded" minOccurs="0">

<xs:complexType>

<xs:sequence>

<xs:element type="xs:byte" name="id"/>

<xs:element type="xs:string" name="Name"/>

<xs:element type="xs:string" name="price"/>

<xs:element type="xs:short" name="quantity"/>

<xs:element type="xs:string" name="Description"/>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>

XSL CODE :

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

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/ShopSmart">

<html>

<head>

<title>ShopSmart Products</title>

</head>

<body>

<h1>ShopSmart Product List</h1>

<table border="1">

<tr>

<th>ID</th>

<th>Name</th>

<th>Price</th>

<th>Quantity</th>

<th>Description</th>

</tr>

<xsl:for-each select="shopsmart/products/product">

<tr>

<td><xsl:value-of select="id"/></td>

<td><xsl:value-of select="Name"/></td>

<td><xsl:value-of select="price"/></td>

<td><xsl:value-of select="quantity"/></td>

<td><xsl:value-of select="Description"/></td>

</tr>

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>

PYTHON CODE :

from lxml import etree

# Load XML

xml\_tree = etree.parse("lab5.xml")

# Load XSL

xsl\_transform = etree.XSLT(etree.parse("lab5.2.xsl"))

# Apply XSLT transformation

html\_tree = xsl\_transform(xml\_tree)

# Write transformed HTML to a file

with open("lab5.3.html") as output\_file:

output\_file.write(etree.tostring(html\_tree, pretty\_print=True))