

CENTRE FOR DISTANCE EDUCATION (D123)

(SET - 24)

V SEMESTER – ASSIGNMENT – I

MASTER OF COMPUTER APPLICATION (MCA)

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SUBJECT CODE : DMC7511

SUBJECT NAME : WEB SERVICE LAB

1. Create an XML files for restaurant Menu card with Multiple sub level complexity

XML File

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href=".//example.xsl" ?>
<breakfast_menu>

<food>
  <name>Belgian Waffles</name>
  <price>$5.95</price>
  <description>Two of our famous Belgian Waffles with plenty of real
maple syrup</description>
  <calories>650</calories>
</food>

<food>
  <name>Strawberry Belgian Waffles</name>
  <price>$7.95</price>
  <description>Light Belgian waffles covered with strawberries and
whipped cream</description>
  <calories>900</calories>
</food>
```

```
<food>

<name>Berry-Berry Belgian Waffles</name>
<price>$8.95</price>
<description>Light Belgian waffles covered with an assortment of
fresh berries and whipped cream</description>
<calories>900</calories>
</food>
```

```
<food>

<name>French Toast</name>
<price>$4.50</price>
<description>Thick slices made from our homemade sourdough
bread</description>
<calories>600</calories>
</food>
```

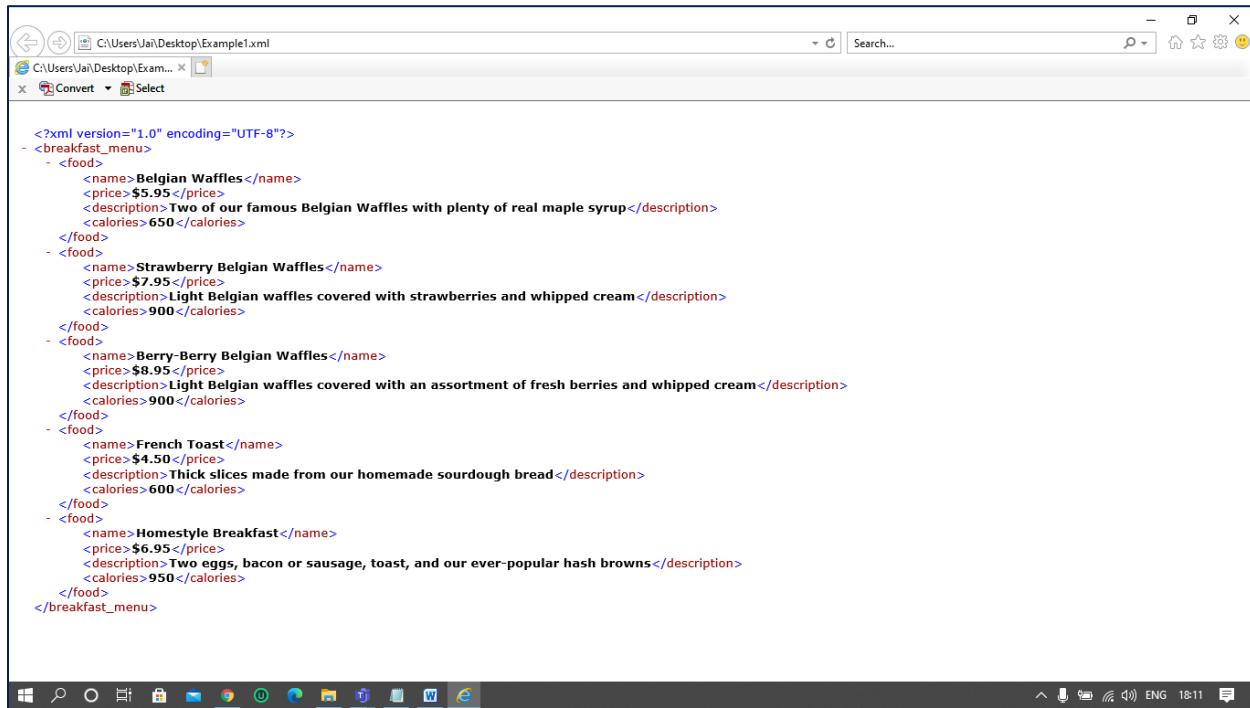
```
<food>

<name>Homestyle Breakfast</name>
<price>$6.95</price>
<description>Two eggs, bacon or sausage, toast, and our ever-
popular hash browns</description>
<calories>950</calories>
```

```
</food>
```

```
</breakfast_menu>
```

Output: XML



The screenshot shows a Windows desktop environment with a taskbar at the bottom. An XML editor window is open, displaying the following XML code:

```
<?xml version="1.0" encoding="UTF-8"?>
<breakfast_menu>
  <food>
    <name>Belgian Waffles</name>
    <price>$5.95</price>
    <description>Two of our famous Belgian Waffles with plenty of real maple syrup</description>
    <calories>650</calories>
  </food>
  <food>
    <name>Strawberry Belgian Waffles</name>
    <price>$7.95</price>
    <description>Light Belgian waffles covered with strawberries and whipped cream</description>
    <calories>900</calories>
  </food>
  <food>
    <name>Berry-Berry Belgian Waffles</name>
    <price>$8.95</price>
    <description>Light Belgian waffles covered with an assortment of fresh berries and whipped cream</description>
    <calories>900</calories>
  </food>
  <food>
    <name>French Toast</name>
    <price>$4.50</price>
    <description>Thick slices made from our homemade sourdough bread</description>
    <calories>600</calories>
  </food>
  <food>
    <name>Homestyle Breakfast</name>
    <price>$6.95</price>
    <description>Two eggs, bacon or sausage, toast, and our ever-popular hash browns</description>
    <calories>950</calories>
  </food>
</breakfast_menu>
```

.XSL File

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

```
<body style="font-family:Arial;font-size:12pt;background-color:#EEEEEE">

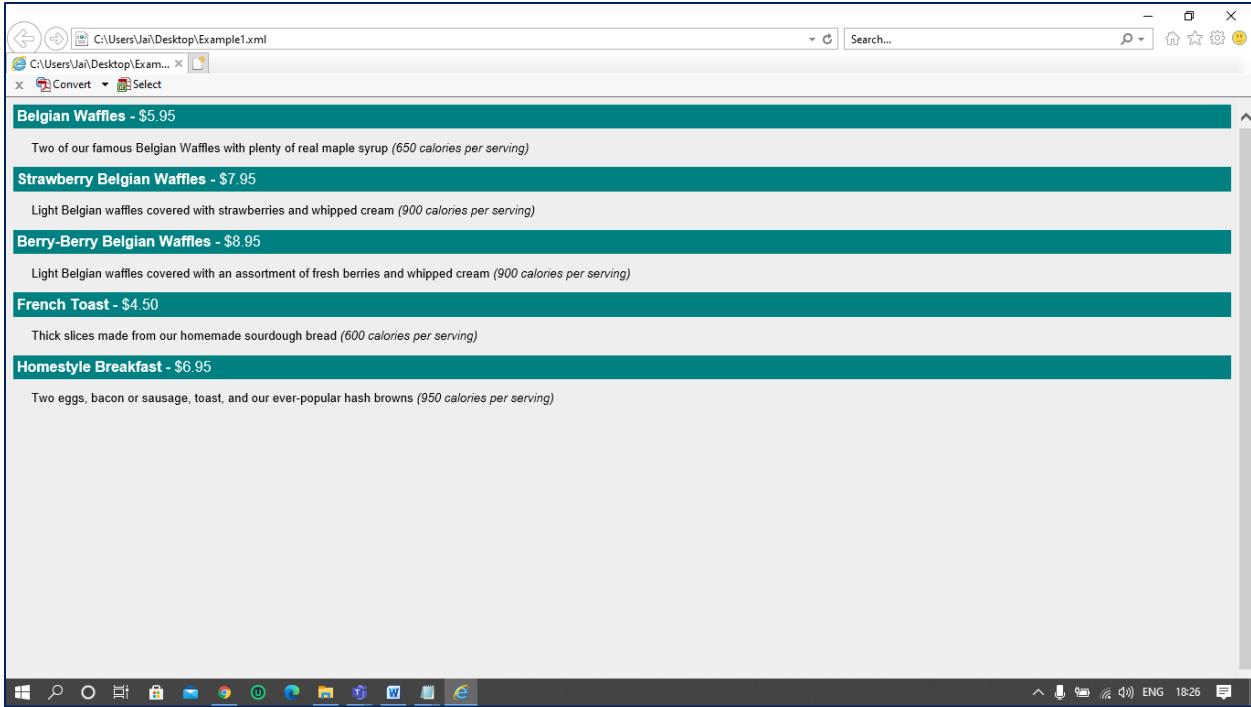
<xsl:for-each select="breakfast_menu/food">

    <div style="background-color:teal;color:white;padding:4px">
        <span style="font-weight:bold"><xsl:value-of select="name"/> -
    </span>
        <xsl:value-of select="price"/>
    </div>

    <div style="margin-left:20px;margin-bottom:1em;font-size:10pt">
        <p>
            <xsl:value-of select="description"/>
            <span style="font-style:italic"> (<xsl:value-of select="calories"/>
calories per serving)</span>
        </p>
    </div>
</xsl:for-each>

</body>
</html>
```

Output:XSL



```
Belgian Waffles - $5.95
Two of our famous Belgian Waffles with plenty of real maple syrup (650 calories per serving)

Strawberry Belgian Waffles - $7.95
Light Belgian waffles covered with strawberries and whipped cream (900 calories per serving)

Berry-Berry Belgian Waffles - $8.95
Light Belgian waffles covered with an assortment of fresh berries and whipped cream (900 calories per serving)

French Toast - $4.50
Thick slices made from our homemade sourdough bread (600 calories per serving)

Homestyle Breakfast - $6.95
Two eggs, bacon or sausage, toast, and our ever-popular hash browns (950 calories per serving)
```

2. Create DTD and XML Schema for an meeting Letter

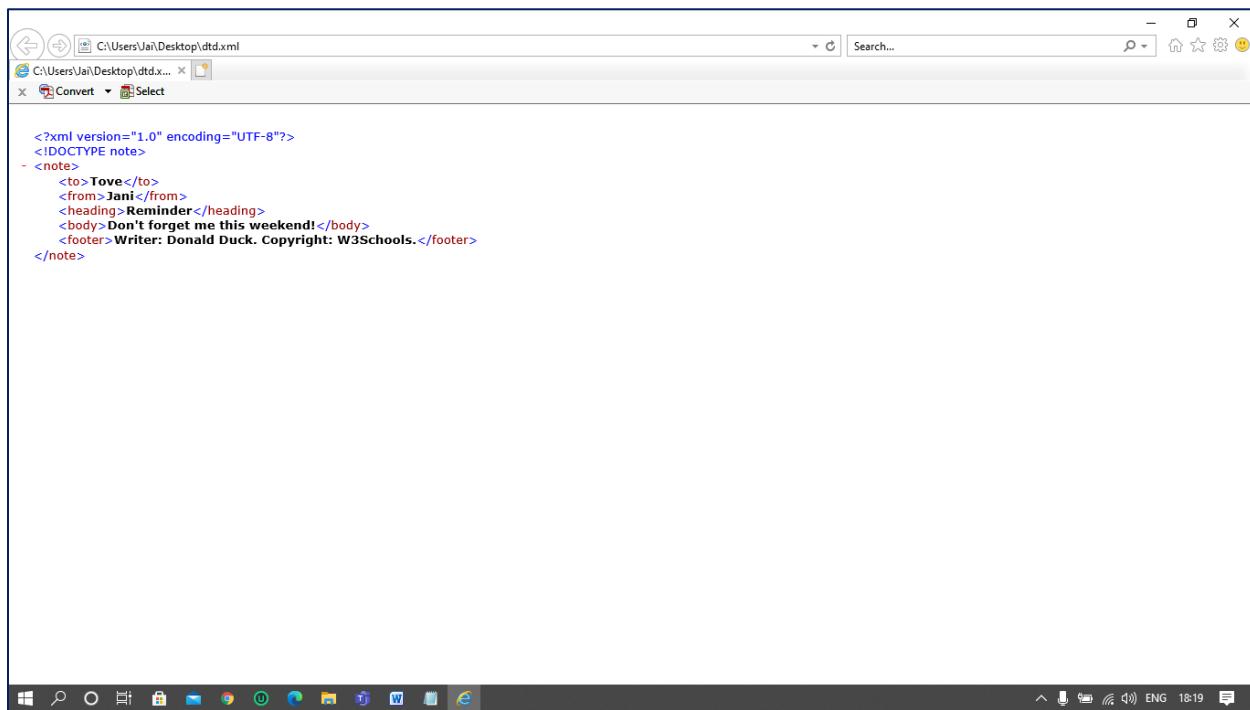
.XML File

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

<!DOCTYPE note [
    <!ENTITY nbsp "&#xA0;">
    <!ENTITY writer "Writer: Donald Duck.">
    <!ENTITY copyright "Copyright: W3Schools.">
]>
```

```
<note>
<to>Tove</to>
<from>Jani</from>
<heading>Reminder</heading>
<body>Don't forget me this weekend!</body>
<footer>&writer;&ampnbsp&copyright;</footer>
</note>
```

Output:



A screenshot of a Windows desktop environment showing a Notepad window. The window title is "C:\Users\Jani\Desktop\dtd.xml". The content of the window displays the following XML code:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE note>
- <note>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this weekend!</body>
  <footer>Writer: Donald Duck. Copyright: W3Schools.</footer>
</note>
```

3.Tabulate the CD catalog content - that shows the selected artist play list

XML File

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href=".//pg3.xsl" ?>
<CATALOG>
<CD>
<TITLE>Empire Burlesque</TITLE>
<ARTIST>Bob Dylan</ARTIST>
<COUNTRY>USA</COUNTRY>
<COMPANY>Columbia</COMPANY>
<PRICE>10.90</PRICE>
<YEAR>1985</YEAR>
</CD>

<CD>
<TITLE>Hide your heart</TITLE>
<ARTIST>Bonnie Tyler</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>CBS Records</COMPANY>
<PRICE>9.90</PRICE>
<YEAR>1988</YEAR>
</CD>
```

<CD>

<TITLE>Greatest Hits</TITLE>

<ARTIST>Dolly Parton</ARTIST>

<COUNTRY>USA</COUNTRY>

<COMPANY>RCA</COMPANY>

<PRICE>9.90</PRICE>

<YEAR>1982</YEAR>

</CD>

<CD>

<TITLE>Still got the blues</TITLE>

<ARTIST>Gary Moore</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>Virgin records</COMPANY>

<PRICE>10.20</PRICE>

<YEAR>1990</YEAR>

</CD>

<CD>

<TITLE>Eros</TITLE>

<ARTIST>Eros Ramazzotti</ARTIST>

<COUNTRY>EU</COUNTRY>

<COMPANY>BMG</COMPANY>

<PRICE>9.90</PRICE>

<YEAR>1997</YEAR>

</CD>

<CD>

<TITLE>One night only</TITLE>

<ARTIST>Bee Gees</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>Polydor</COMPANY>

<PRICE>10.90</PRICE>

<YEAR>1998</YEAR>

</CD>

<CD>

<TITLE>Sylvias Mother</TITLE>

<ARTIST>Dr.Hook</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>CBS</COMPANY>

<PRICE>8.10</PRICE>

<YEAR>1973</YEAR>

</CD>

<CD>

<TITLE>Maggie May</TITLE>
<ARTIST>Rod Stewart</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>Pickwick</COMPANY>
<PRICE>8.50</PRICE>
<YEAR>1990</YEAR>
</CD>

<CD>
<TITLE>Romanza</TITLE>
<ARTIST>Andrea Bocelli</ARTIST>
<COUNTRY>EU</COUNTRY>
<COMPANY>Polydor</COMPANY>
<PRICE>10.80</PRICE>
<YEAR>1996</YEAR>
</CD>

<CD>
<TITLE>When a man loves a woman</TITLE>
<ARTIST>Percy Sledge</ARTIST>
<COUNTRY>USA</COUNTRY>
<COMPANY>Atlantic</COMPANY>
<PRICE>8.70</PRICE>

<YEAR>1987</YEAR>

</CD>

<CD>

<TITLE>Black angel</TITLE>

<ARTIST>Savage Rose</ARTIST>

<COUNTRY>EU</COUNTRY>

<COMPANY>Mega</COMPANY>

<PRICE>10.90</PRICE>

<YEAR>1995</YEAR>

</CD>

<CD>

<TITLE>1999 Grammy Nominees</TITLE>

<ARTIST>Many</ARTIST>

<COUNTRY>USA</COUNTRY>

<COMPANY>Grammy</COMPANY>

<PRICE>10.20</PRICE>

<YEAR>1999</YEAR>

</CD>

<CD>

<TITLE>For the good times</TITLE>

<ARTIST>Kenny Rogers</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>Mucik Master</COMPANY>
<PRICE>8.70</PRICE>
<YEAR>1995</YEAR>
</CD>

<CD>
<TITLE>Big Willie style</TITLE>
<ARTIST>Will Smith</ARTIST>
<COUNTRY>USA</COUNTRY>
<COMPANY>Columbia</COMPANY>
<PRICE>9.90</PRICE>
<YEAR>1997</YEAR>
</CD>

<CD>
<TITLE>Tupelo Honey</TITLE>
<ARTIST>Van Morrison</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>Polydor</COMPANY>
<PRICE>8.20</PRICE>
<YEAR>1971</YEAR>

</CD>

<CD>

<TITLE>Soulsville</TITLE>

<ARTIST>Jorn Hoel</ARTIST>

<COUNTRY>Norway</COUNTRY>

<COMPANY>WEA</COMPANY>

<PRICE>7.90</PRICE>

<YEAR>1996</YEAR>

</CD>

<CD>

<TITLE>The very best of</TITLE>

<ARTIST>Cat Stevens</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>Island</COMPANY>

<PRICE>8.90</PRICE>

<YEAR>1990</YEAR>

</CD>

<CD>

<TITLE>Stop</TITLE>

<ARTIST>Sam Brown</ARTIST>

<COUNTRY>UK</COUNTRY>
<COMPANY>A and M</COMPANY>
<PRICE>8.90</PRICE>
<YEAR>1988</YEAR>
</CD>

<CD>
<TITLE>Bridge of Spies</TITLE>
<ARTIST>T'Pau</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>Siren</COMPANY>
<PRICE>7.90</PRICE>
<YEAR>1987</YEAR>
</CD>

<CD>
<TITLE>Private Dancer</TITLE>
<ARTIST>Tina Turner</ARTIST>
<COUNTRY>UK</COUNTRY>
<COMPANY>Capitol</COMPANY>
<PRICE>8.90</PRICE>
<YEAR>1983</YEAR>
</CD>

<CD>

<TITLE>Midt om natten</TITLE>

<ARTIST>Kim Larsen</ARTIST>

<COUNTRY>EU</COUNTRY>

<COMPANY>Medley</COMPANY>

<PRICE>7.80</PRICE>

<YEAR>1983</YEAR>

</CD>

<CD>

<TITLE>Pavarotti Gala Concert</TITLE>

<ARTIST>Luciano Pavarotti</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>DECCA</COMPANY>

<PRICE>9.90</PRICE>

<YEAR>1991</YEAR>

</CD>

<CD>

<TITLE>The dock of the bay</TITLE>

<ARTIST>Otis Redding</ARTIST>

<COUNTRY>USA</COUNTRY>

<COMPANY>Stax Records</COMPANY>

<PRICE>7.90</PRICE>

<YEAR>1968</YEAR>

</CD>

<CD>

<TITLE>Picture book</TITLE>

<ARTIST>Simply Red</ARTIST>

<COUNTRY>EU</COUNTRY>

<COMPANY>Elektra</COMPANY>

<PRICE>7.20</PRICE>

<YEAR>1985</YEAR>

</CD>

<CD>

<TITLE>Red</TITLE>

<ARTIST>The Communards</ARTIST>

<COUNTRY>UK</COUNTRY>

<COMPANY>London</COMPANY>

<PRICE>7.80</PRICE>

<YEAR>1987</YEAR>

</CD>

<CD>

```
<TITLE>Unchain my heart</TITLE>
<ARTIST>Joe Cocker</ARTIST>
<COUNTRY>USA</COUNTRY>
<COMPANY>EMI</COMPANY>
<PRICE>8.20</PRICE>
<YEAR>1987</YEAR>
</CD>
</CATALOG>
```

.XSL File

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
<h2>My CD Collection</h2>
<table border="1">
<tr bgcolor="#9acd32">
<th>TITLE</th>
```

```
<th>ARTIST</th>

<th>COUNTRY</th>

<th>COMPANY</th>

<th>PRICE</th>

<th>YEAR</th>

</tr>

<xsl:for-each select="CATALOG/CD">

<xsl:if test="PRICE>8">

<tr>

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

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

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

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

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

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

</tr>
```

```

</xsl:if>

</xsl:for-each>

</table>

</body>

</html>

</xsl:template>

</xsl:stylesheet>

```

Output:

My CD Collection

TITLE	ARTIST	COUNTRY	COMPANY	PRICE	YEAR
Empire Burlesque	Bob Dylan	USA	Columbia	10.90	1985
Hide your heart	Bonnie Tyler	UK	CBS Records	9.90	1988
Greatest Hits	Dolly Parton	USA	RCA	9.90	1982
Still got the blues	Gary Moore	UK	Virgin records	10.20	1990
Eros	Eros Ramazzotti	EU	BMG	9.90	1997
One night only	Bee Gees	UK	Polydor	10.90	1998
Sylvias Mother	Dr Hook	UK	CBS	8.10	1973
Maggie May	Rod Stewart	UK	Pickwick	8.50	1990
Romanza	Andrea Bocelli	EU	Polydor	10.80	1996
When a man loves a woman	Percy Sledge	USA	Atlantic	8.70	1987
Black angel	Savage Rose	EU	Mega	10.90	1995
1999 Grammy Nominees	Many	USA	Grammy	10.20	1999
For the good times	Kenny Rogers	UK	Mucik Master	8.70	1995
Big Willie style	Will Smith	USA	Columbia	9.90	1997
Tupelo Honey	Van Morrison	UK	Polydor	8.20	1971
The very best of	Cat Stevens	UK	Island	8.90	1990
Stop	Sam Brown	UK	A and M	8.90	1988
Private Dancer	Tina Turner	UK	Capitol	8.90	1983
Pavarotti Gala Concert	Luciano Pavarotti	UK	DECCA	9.90	1991
Unchain my heart	Joe Cocker	USA	EMI	8.20	1987