IQRA AKBAR

Lab no:8

- <u>TASK:1</u>
- Create an XML document structuring information for a store. (shopping store of your choice)

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<store>
  <name>The Body Shop</name>
  <location>Shop#7 ,Dolmen Mall</location>
  <employees>3</employees>
  <category>
    <base>
      <item_1>Matte Clay Concealer</item_1>
      <item_2>All in one face base</item_2>
      <item_3>insta glow CC</item_3>
    </base>
    <Bronzers>
       <item_1>Shimmer waves</item_1>
      <item_2>Honey Bronze(Baked to last Bronzer)</item_2>
      <item 3>All in one Blush</item 3>
    </Bronzers>
    <Nail_Paints>
       <item 1>Matte Nail paint</item 1>
      <item_2>Wooden nail brush</item_2>
    </Nail Paints>
    <Lipsticks>
       <item_1>Shine lip liquid</item_1>
      <item_2>Lip balm pot</item_2>
      <item_3>Matte lip liquid</item_3>
    </Lipsticks>
  </category>
</store>
```

• TASK:2

DTD: (Validation)

• <u>Create DTD for store XML Document. And validate on</u> http://www.w3schools.com/xml/xml_validator.asp

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE store
[
<!ELEMENT store (name+,location+,employees+,category+)>
```

IQRA AKBAR

```
<!ELEMENT name (#PCDATA)>
<!ELEMENT location (#PCDATA)>
<!ELEMENT employees (#PCDATA)>
<!ELEMENT category (base,Bronzers,Nail_Paints,Lipsticks)>
<!ELEMENT base (item 1,item 2,item 3)>
<!ELEMENT item_1 (#PCDATA)>
<!ELEMENT item_2 (#PCDATA)>
<!ELEMENT item_3 (#PCDATA)>
<!ELEMENT Bronzers (item_1,item_2,item_3)>
<!ELEMENT item 1 (#PCDATA)>
<!ELEMENT item 2 (#PCDATA)>
<!ELEMENT item_3 (#PCDATA)>
<!ELEMENT Nail_Paints (item_1,item_2,item_3)>
<!ELEMENT item_1 (#PCDATA)>
<!ELEMENT item 2 (#PCDATA)>
<!ELEMENT item_3 (#PCDATA)>
<!ELEMENT Lipsticks (item_1,item_2,item_3)>
<!ELEMENT item_1 (#PCDATA)>
<!ELEMENT item 2 (#PCDATA)>
<!ELEMENT item 3 (#PCDATA)>
]>
<store>
  <name>The Body Shop</name>
  <location>Shop#3 First floor, Boulevard Mall</location>
  <employees>3</employees>
  <category>
    <base>
      <item_1>Matte Clay Concealer</item_1>
      <item 2>All in one face base</item 2>
      <item_3>insta glow CC</item_3>
    </base>
    <Bronzers>
       <item 1>Shimmer waves</item 1>
      <item 2>Honey Bronze(Baked to last Bronzer)</item 2>
      <item_3>All in one Blush</item_3>
    </Bronzers>
    <Nail_Paints>
       <item_1>Matte Nail paint</item_1>
      <item 2>Wooden nail brush</item 2>
    </Nail_Paints>
    <Lipsticks>
       <item_1>Shine lip liquid</item_1>
      <item 2>Lip balm pot</item 2>
      <item_3>Matte lip liquid</item_3>
    </Lipsticks>
  </category>
</store>
```

16SW166 IQRA AKBAR



- <u>TASK:3</u>
- Write XML Schema for the following XML document and then validate the XML document along with its schema on the following website:
- http://www.utilities-online.info/xsdvalidation/#.UlFx2tKmhIg

XML

```
<?xml version="1.0" ?>
<movies>
 <movie genre="crime">
  <title lang="en">The Godfather</title>
  <year>1972
  <rating>9.2</rating>
 </movie>
 <movie genre="horror">
  <title lang="en">The conjuring</title>
  <year>2013</year>
  <rating>7.5</rating>
 </movie>
 <movie genre="adventure">
  <title lang="en">Everest</title>
  <year>2015
  <rating>7.4</rating>
 </movie>
</movies>
```

XML Schema:

```
<xs:sequence>
                                  <xs:element name="title">
                                       <xs:complexType>
                                            <xs:simpleContent>
                                                 <xs:extension base="xs:string">
                                                      <xs:attribute type="xs:string" name="lang" use="optional"/>
                                                 </xs:extension>
                                            </xs:simpleContent>
                                       </xs:complexType>
                                  </xs:element>
                                  <xs:element type="xs:short" name="year"/>
                                  <xs:element type="xs:float" name="rating"/>
                             </r></xs:sequence>
                             <xs:attribute type="xs:string" name="genre" use="optional"/>
                        </r></rs:complexType>
                   </xs:element>
              </xs:sequence>
         </r></rs:complexType>
    </xs:element>
</xs:schema>
                                          XML
                                                                                                                              XSD Schema
 XSD Schema

(XSISEQUENCE)

(XSISEQUENCE)
  </movie>
<movie genre="adventure">
<title lang="en">Everest</title>
<year>2015</year>
<rating>7.4</rating>
</movie>
                                                                                                  </xs:element>
                                                                                           </movies>
                                 Check XML Well Formed
                                                                                                                           Check XSD Validity
                                                                            Validate XML against XSD
```