CSPE 33: Web Technologies Assignment - 2

Submitted by, Subhradeep Saha Roll no - 106118095

```
a.
  <!ELEMENT bank (accounts, customers,
  customer accounts)>
  <!ELEMENT accounts (savings accounts,
  checking accounts)>
  <!ELEMENT savings accounts (savings account*)>
  <!ELEMENT savings account (balance)>
  <!ELEMENT balance (#CDATA)>
  <!ATTLIST savings account id ID #REQUIRED>
  <!ATTLIST savings account interest CDATA #REQUIRED>
  <!ELEMENT checking accounts (checking account*)>
  <!ELEMENT checking account (balance)>
  <!ATTLIST checking account id ID #REQUIRED>
  <!ELEMENT customers (customer*)>
  <!ELEMENT customer (name, address)>
  <!ATTLIST customer id ID #REQUIRED>
  <!ELEMENT name (#CDATA)>
  <!ELEMENT address (#CDATA)>
  <!ELEMENT customer accounts (customer account*)>
  <!ELEMENT customer account EMPTY>
  <!ATTLIST customer account c id IDREF #REQUIRED>
  <!ATTLIST customer account ac id IDREF #REQUIRED>
b.
  <!ELEMENT Books (Book*)>
  <!ELEMENT Book (Isbn, Title, Author)>
  <!ELEMENT Isbn (#CDATA)>
  <!ELEMENT Title (#CDATA)>
  <!ELEMENT Author (#CDATA)>
C.
  <?xml version="1.0" encoding="UTF-8"?>
  <xsl:stylesheet version="1.0"</pre>
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
  <html>
       <body>
            <h1>Student Details</h1>
```

```
Name
              Roll Number
              Department
              CGPA
          <xsl:for-each select="Students/Student">
          <xsl:value-of select="name"/>
              <xsl:value-of</pre>
              select="rollno"/>
              <xsl:value-of</pre>
              select="department"/>
              <xsl:value-of select="cgpa"/>
              </xsl:for-each>
       </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Student Details

Name	Roll Number	Department	CGPA
John	CS101	CSE	9.5
Williams	CE034	CIVIL	7.4
Rohit	EC087	ECE	8.7

```
d.
  <!ELEMENT Employee (Emp*)>
  <!ELEMENT Emp (name, eid, department, doj, salary)>
  <!ELEMENT name (#CDATA)>
  <!ELEMENT eid (#CDATA)>
  <!ELEMENT department (#CDATA)>
  <!ELEMENT doj (#CDATA)>
  <!ELEMENT salary (#CDATA)>
е.
  <?xml version="1.0" encoding="UTF-8"?>
  <xsl:stylesheet version="1.0"</pre>
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
  <html>
      <head>
          <title>Books</title>
      </head>
      <body>
      <h1>Library</h1>
          ISBN
                   Title
                   Author
              <xsl:for-each select="Books/Book">
              <xsl:value-of select="Isbn"/>
                   <xsl:value-of select="Title"/>
                   <xsl:value-of</pre>
                   select="Author"/>
                   </xsl:for-each>
```

```
</body>
</html>
```

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

Library

ISBN	Title	Author
0 - 8447 - 768	XML in a Nutshell	Harold, Elliotte Rusty
978 - 81 - 317 - 6235 - 6	Service - Oriented Architecture	Thomas Erl
978 - 81 - 317 - 1869 - 8	XML and WebServices	Ron Schmelzer