Practice # 1

Write an XML document using notepad and make sure that the document can be parsed without error.

Practice # 2

Now declare two parsed character entities for the text phrases "IDB-BISEW" and "To improve skills of underprivileged Muslim youth in IT field".

Rewrite the XML document referencing the two entities in the element contents.

Use internal DTD subset. You do not need to declare elements or validate the document.

Practice #3

You are also the following constraints the XML element and attributes

- course-id attribute must appear and its value must be ESAD-CS, ESAD-VB or NT
- module-id attribute is required and must unique in the documents
- modules must contain at least one module

Write a DTD file and validate the XML document.

Practice # 4

Consider the following facts

A person's name consists of first-name, middle-name, and last-name in order as written

- First-name, last-name and middle-name each one contains text data
- Some person has no middle-name
- First-name, last-name can appear only once

Tasks:

Write DTD code fragments for the above content model and specification.

Write sample XML content

Write DTD rules as internal subset in the XML document

Practice # 5

You have to create persons Document Type. Structure is described below

- Persons
- persons contains zero one or more person elements
- person element has an optional title attribute
- title attribute may have "Mr" or "Mrs" as the value
- person element contains name element
- name element contains text data

Tasks

Create an external DTD file

Write an example XML file with sample data and associate the external DTD reference

Validate the XML document

Practice # 6

You want to separate your HTML user interfact from content. You stored data in XML in following structure

```
<?xml version="1.0" encoding="utf-8" ?>
<trainee>
  <name>Md. Foysal Wahid</name>
  <email>fwrasel87@gmail.com</email>
  <course>ESAD-CS</course>
  <round>18</round>
</trainee>
```

Tasks:

Create an HTML template

Show data on the HTML template using JavaScript as middle layer application

Practice # 7

You have the following XML data in book.xml

Using Java Script show the xml data on an HTML page like below Book Information

Name: SQL

Author: James Scott Price: 700.00

Practice #8

You have the following XML data in trainees.xml

```
<?xml version="1.0"?>
<trainees>
    <trainee course="ESAD" round="11">
       <name>Nazmul Haq</name>
       <assignedto>DIIT</assignedto>
       <contact>0110889933</contact>
    </trainee>
    <trainee course ="NT" round="11">
       <name>Anwar</name>
       <assignedto>DIIT</assignedto>
       <contact>0110887766</contact>
    </trainee>
    <trainee course ="ESAD" round="11">
       <name>Sanu</name>
       <assignedto>BITL</assignedto>
       <contact>0110786094</contact>
    </trainee>
</trainees>
```

You have to show the information of trainees in ESAD course on an HTML file using JavaScript.

Practice #9

```
You have an xml file like below:
```

Create XSL rules to display XML data in HTML as below

Trainee Information

Name Kohorshed Alam

ID 107898

Email alam@idb-bisew.org

Course ESAD-CS Round 11

Practice # 10

```
Write the following XML file
```

```
<publisher>QUE</publisher>
    </book>
    <book isbn="10-90-3467-819">
       <name>OOSAD using UML</name>
       <author>Bennet</author>
       <listprice>24.99
       <price>17.55</price>
       <edition>3</edition>
       <publisher>Prentice Hall</publisher>
    </book>
    <book isbn="10-90-3467-819">
       <name>XML</name>
       <author>Bennet</author>
       <listprice>24.99
       <price>17.55</price>
       <edition>2</edition>
       <publisher>Prentice Hall</publisher>
    </book>
    <book isbn="10-90-3467-819">
       <name>HTML</name>
       <author>Bennet</author>
       <listprice>24.99
       <price>17.55</price>
       <edition>4</edition>
       <publisher>Prentice Hall</publisher>
    </book>
</books>
```

Now create a XSL file and write appropriate XSLT rules so that a XSLT processor generate following HTML output

Available books in store:

Name	Author	Price	Edition	Publisher
SQL ins and outs	Clerk	\$17.55	4	QUE
OOSAD using UML	Bennet	\$17.55	3	Prentice Hall
XML	Bennet	\$17.55	2	Prentice Hall

Practice # 11

```
<name>Programming practice</name>
       <author>Dave Hart</author>
       <listprice>20.99
       <price>8.55</price>
       <edition>4</edition>
       <publisher>Prentice Hall</publisher>
    </book>
  <book isbn="10-90-3467-819" available="yes">
       <name>OOSAD using UML</name>
       <author>Bennet</author>
       <listprice>30.99
       <price>20.55</price>
       <edition>3</edition>
       <publisher>Prentice Hall</publisher>
    </book>
    <book isbn="10-90-3467-819" available="no">
       <name>HTML</name>
       <author>Bennet</author>
       <listprice>24.99
       <price>17.55</price>
       <edition>4</edition>
       <publisher>Prentice Hall</publisher>
    </book>
</books>
```

Now create a XSL file and write appropriate XSLT rules so that a XSLT processor generate following HTML output (look carefully it only shows books those are available)

Available books in store:

Name	Author	Price	Edition	Publisher
SQL ins and outs	Clerk	\$17.55	4	QUE
OOSAD using UML	Bennet	\$17.55	3	Prentice Hall
XML	Bennet	\$17.55	2	Prentice Hall