Write an XML file which will display the Book information which includes the following:

- 1) Title of the book 2) Author Name 3) ISBN number
- 4) Publisher name 5) Edition 6) Price
- a) Write a Document Type Definition (DTD) to validate the above XML file.
- b) Write a XML Schema Definition (XSD) to validate the above XML file.

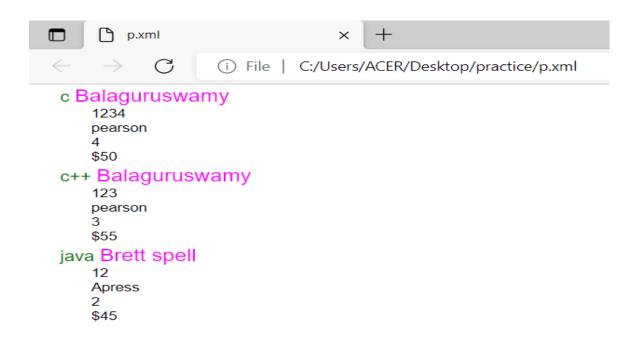
a) Write a Document Type Definition (DTD) to validate the above XML file

Xml file:

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="library.css" ?>
<?DOCTYPE catalogue SYSTEM "book.dtd"?>
<catalogue>
<book>
<title>c</title>
<author>Balaguruswamy</author>
<isbn>1234</isbn>
<publisher>pearson</publisher>
<edition>4</edition>
<price>$50</price>
</book>
<book>
<title>c++</title>
<author>Balaguruswamy</author>
<isbn>123</isbn>
<publisher>pearson</publisher>
<edition>3</edition>
<price>$55</price>
</book>
<book>
<title>java</title>
<author>Brett spell</author>
<isbn>12</isbn>
<publisher>Apress</publisher>
```

```
<edition>2</edition>
cprice>$45</price>
</book>
</catalogue>
Dtd File:
<!ELEMENT catalogue (book)*>
<!ELEMENT book (title,author,isbn,publisher,edition,price)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT isbn (#PCDATA)>
<!ELEMENT publisher (#PCDATA)>
<!ELEMENT edition (#PCDATA)>
<!ELEMENT price (#PCDATA)>
Library.css
catalogue
font-family:arial;
color:blue;
font-size:16pt
}
book
font-family:times new roman;
color:blue;
table-layout:auto;
font-size:14pt
}
title
font-family:arial;
```

```
color:green;
margin-left:20pt;
font-size:12pt
}
author
font-family:arial;
color:magenta
}
publisher, edition, is bn, price
{
display:block;
font-family:arial;
color:black;
font-size:10pt;
margin-left:40pt
}
```



b) Write a XML Schema Definition (XSD) to validate the above XML file.

Xml file:

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="library.css" ?>
<book xmlns:xsi="book.xsd">
<catalogue>
<book>
<title>c</title>
<author>Balaguruswamy</author>
<isbn>1234</isbn>
<publisher>pearson</publisher>
<edition>4</edition>
cprice>$50</price>
</book>
<book>
<title>c++</title>
<author>Balaguruswamy</author>
<isbn>123</isbn>
<publisher>pearson</publisher>
<edition>3</edition>
<price>$55</price>
</book>
<book>
<title>java</title>
<author>Brett spell</author>
<isbn>12</isbn>
<publisher>Apress/publisher>
<edition>2</edition>
cprice>$45</price>
</book>
</catalogue>
```

book.xsd file

title

```
<?xml version="1.0"?>
<xs:schemaxmlns:xs="">
<xs:element name="book">
<xs:complexType>
<xs:all>
<xs:element name="title" type="xs:string"/>
<xs:element name="author" type="xs:string"/>
<xs:element name="isbn" type="xs:integer"/>
<xs:element name="publisher" type="xs:string"/>
<xs:element name="edition" type="xs:decimal"/>
<xs:element name="price" type="xs:float"/>
</xs:all>
</r></re></re>
</xs:element>
</xs:schema>
Library.css
catalogue
font-family:arial;
color:blue;
font-size:16pt
}
book
{
font-family:times new roman;
color:blue;
table-layout:auto;
font-size:14pt
}
```

```
Roll No.
                                     Experiment No.6
                                                                                Page No.
{
font-family:arial;
color:green;
margin-left:20pt;
font-size:12pt
}
author
font-family:arial;
color:magenta
}
publisher, edition, is bn, price
{
display:block;
font-family:arial;
color:black;
font-size:10pt;
margin-left:40pt
          p.xml
                  C
                           i File | C:/Users/ACER/Desktop/practice/p.xml
    c Balaguruswamy
         1234
         pearson
         $50
    c++ Balaguruswamy
         123
         pearson
         3
         $55
    java Brett spell
         12
         Apress
         $45
```