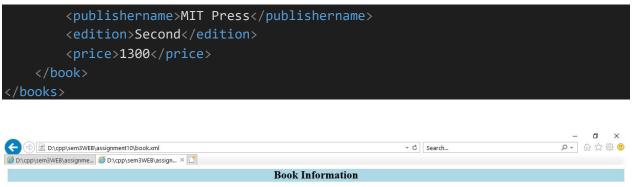
NAME SHISHU

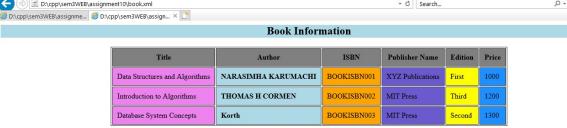
WEEK-10 XML

- 1. Write an XML file which will display the Book information. It includes the following:
- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name
- 5) Edition
- 6) Price

Write a Document Type Definition (DTD) to validate the above XML file. Display the XML file as follows. The contents should be displayed in a table. The header of the table should be in colour GREY. And the Author names column should be displayed in one colour and should be capitalized and in bold. Use your own colours for remaining columns. Use XML and CSS for the above purpose.

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="book.xsl"?>
<!DOCTYPE books SYSTEM "book.dtd">
    <heading>Book Information</heading>
    <book>
        <title>Data Structures and Algorithms</title>
        <author>NARASIMHA KARUMACHI</author>
        <isbn>BOOKISBN001</isbn>
        <publishername>XYZ Publications/publishername>
        <edition>First</edition>
        <price>1000</price>
    </book>
    <book>
        <title>Introduction to Algorithms</title>
        <author>THOMAS H CORMEN</author>
        <isbn>BOOKISBN002</isbn>
        <publishername>MIT Press/publishername>
        <edition>Third</edition>
        <price>1200</price>
    </book>
    <book>
        <title>Database System Concepts</title>
        <author>Korth</author>
        <isbn>BOOKISBN003</isbn>
```





```
DTD FILE

<!ELEMENT books (heading, (book)*)>
<!ELEMENT book (title, author, isbn, publishername, edition, price)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT isbn (#PCDATA)>
<!ELEMENT publishername (#PCDATA)>
<!ELEMENT dither (#PCDATA)>
<!ELEMENT dither (#PCDATA)>
<!ELEMENT dither (#PCDATA)>
<!ELEMENT publishername (#PCDATA)>
<!ELEMENT publishername (#PCDATA)>
<!ELEMENT edition (#PCDATA)>
```

2. Design an XML document to store information about a student in an MNNIT. The information must include Roll no, Name, and Name of the College, Branch, Year of Joining, and email id. Make up sample data for 3 students. Create a CSS style sheet and use it to display the document.

<!ELEMENT price (#PCDATA)>

```
<name>kancha kancha</name>
       <collegename>MNNIT</collegename>
       <branch>MSc</branch>
       <year>2020</year>
       <email>harshit.2020cs084@mnnit.ac.in</email>
   </student>
   <student>
       <rollno>2021CA117</rollno>
       <name>Vikash Gupta</name>
       <collegename>MNNIT</collegename>
       <branch>MCA
       <year>2021</year>
       <email>vikash.2021ca117@mnnit.ac.in
   </student>
   <student>
       <rollno>20211251</rollno>
       <name>HariOm Sharma
       <collegename>MNNIT</collegename>
       <branch>BTech
       <year>2021</year>
       <email>hariom.20211251@mnnit.ac.in
   </student>
</students>
```

```
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
 <xsl:template match="/">
   <html>
     <body>
       <h2 style="background-color:lightblue; text-align:center;">
Student Information</h2>
       Roll No
          Name
          College
Name
          Branch
          Year
          Email ID
        <xsl:for-each select="students/student">
          <xsl:value-of select="rollno" />
```

```
<xsl:value-of select="name" />
            <xsl:value-of select="collegename" />
            <xsl:value-of select="branch" />
            <xsl:value-of select="year" />
            <xsl:value-of select="email" />
            </body>
  </html>
 </xsl:template>
/xsl:stylesheet>
```





3. Writing program in XML for creation of DTD, which specifies set of rules. Create a style sheet in CSS/ XSL & display the document in internet explorer.

Book.xsl

```
<html>
     <body>
       <h2 style="background-color:lightblue; text-align:center;"> Book
Information</h2>
       margin-right: auto;">
         Title
           Author
           ISBN
           Publisher
Name
           Edition
           Price
         <xsl:for-each select="books/book">
           <xsl:value-of select="title" />
             <td bgcolor="lightblue" style="padding:10px; font-
weight: bold;">
               <xsl:value-of select="author" />
             <xsl:value-of select="isbn" />
             <xsl:value-of select="publishername" />
             <xsl:value-of select="edition" />
             <xsl:value-of select="price" />
             </xsl:for-each>
       </body>
   </html>
 </xsl:template>
</xsl:stvlesheet>
```