

Ex 6: Write a Document Type Definition (DTD) to validate the above XML file.

- Your XML file is named `books.xml`
- Your DTD file is named `books.dtd`
- Both files are in the **same folder or Desktop**



books.dtd:

```
<!ELEMENT books (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)>
```

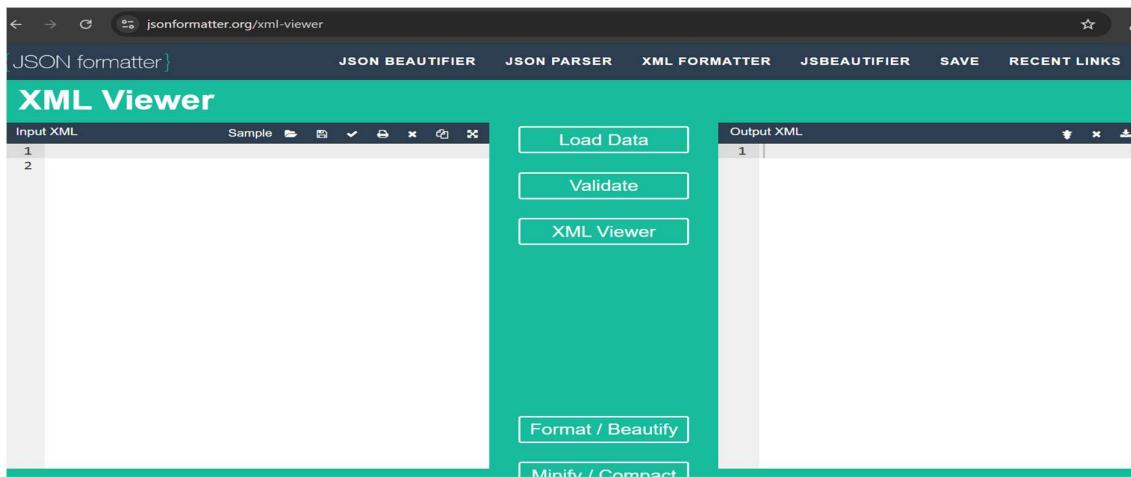
books.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE books SYSTEM "books.dtd">
<books>
<book>
<title>Effective Java</title>
<author>Joshua Bloch</author>
<isbn>9780134685991</isbn>
<publisher>Addison-Wesley</publisher>
<edition>3</edition>
<price>45.99</price>
```

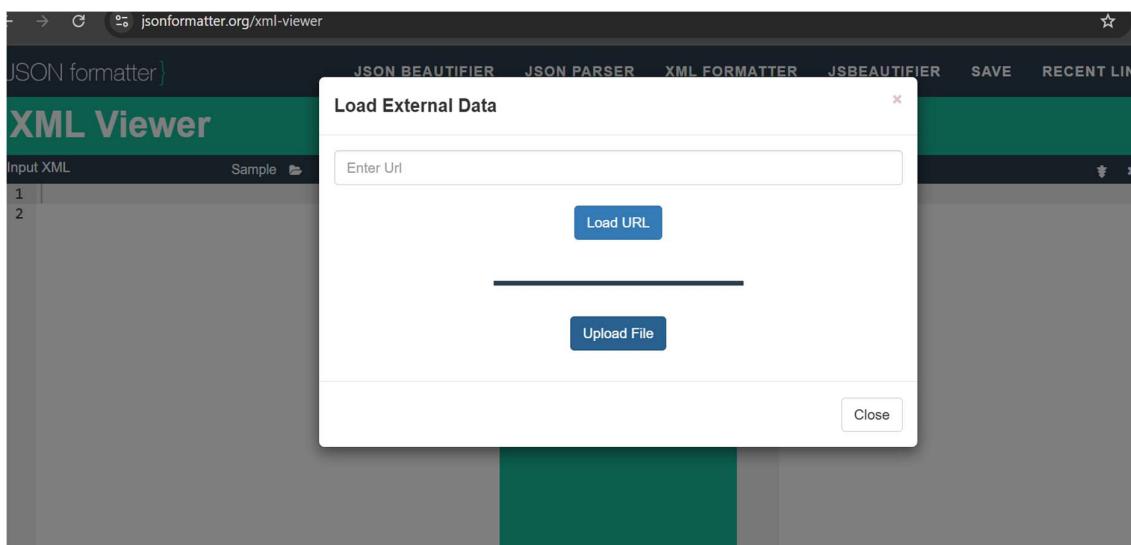
```
</book>
<book>
<title>Clean Code</title>
<author>Robert C. Martin</author>
<isbn>9780132350884</isbn>
<publisher>Prentice Hall</publisher>
<edition>1</edition>
<price>40.00</price>
</book>
</books>
```

OUTPUT:

Step-1: Goto to link: <https://jsonformatter.org/xml-viewer>



Step-2: click on Load Data and upload .xml file



Step-3: after uploading the XML file

The screenshot shows the JSON formatter XML viewer interface. On the left, the 'Input XML' pane displays the XML code for two books. In the center, there are buttons for 'Load Data', 'Validate', 'XML Viewer', and 'Format / Beautify'. On the right, the 'XML Tree' pane shows a hierarchical structure with 'books' as the root node, containing one 'book' node.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE books SYSTEM "books.dtd">
<books>
  <book>
    <title>Effective Java</title>
    <author>Joshua Bloch</author>
    <isbn>9780134685991</isbn>
    <publisher>Addison-Wesley</publisher>
    <edition>3</edition>
    <price>45.99</price>
  </book>
  <book>
    <title>Clean Code</title>
    <author>Robert C. Martin</author>
    <isbn>9780132350884</isbn>
    <publisher>Prentice Hall</publisher>
    <edition>1</edition>
    <price>40.00</price>
  </book>
</books>
```

Step-4: Final OUTPUT like this after click on books {1}.

The screenshot shows the JSON formatter XML viewer interface after clicking on the 'books' node in the tree. The 'Input XML' pane remains the same. The 'XML Tree' pane now displays the expanded structure, showing the details for each book, such as title, author, ISBN, publisher, edition, and price.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE books SYSTEM "books.dtd">
<books>
  <book>
    <title>Effective Java</title>
    <author>Joshua Bloch</author>
    <isbn>9780134685991</isbn>
    <publisher>Addison-Wesley</publisher>
    <edition>3</edition>
    <price>45.99</price>
  </book>
  <book>
    <title>Clean Code</title>
    <author>Robert C. Martin</author>
    <isbn>9780132350884</isbn>
    <publisher>Prentice Hall</publisher>
    <edition>1</edition>
    <price>40.00</price>
  </book>
</books>
```

XML Tree:

- object > books > book > 1
 - object {1}
 - books {1}
 - book [2]
 - 0 {6}
 - title : Effective Java
 - author : Joshua Bloch
 - isbn : 9780134685991
 - publisher : Addison-Wesley
 - edition : 3
 - price : 45.99
 - 1 {6}
 - title : Clean Code
 - author : Robert C. Martin
 - isbn : 9780132350884
 - publisher : Prentice Hall
 - edition : 1
 - price : 40.00