

Exercise 12 a. Parsing XML Document using DOM

Given a Xml file as an input, parse the document using DOM Parser and display the information as unordered list as follows:

- **Book Name:** XML Developer's Guide
- **Author Name:** Gambardella, Matthew
- **Genre:** Computer
- **Price:** 44.95
- **Publish Date:** 2000-10-01
- **Description:** An in-depth look at creating applications with XML

Exercise 12 b. XML StyleSheet Transformation

12. Create an XML to represent the BOOKS catalog that has the following elements (TITLE,ISBN NO,AUTHOR,PUBLISHER,PRICE). Display the book details styled with XSLT that answers the following queries.

- Sort the book names in ascending order using sort
- Display the title of the book that has genre “Computer”
- Display the title of the book with price greater than 7 and less than 50
- Display all the books and author in table format
- Concatenate the author name and book name and display in unordered list

Input File: books.xml

```
<?xml version="1.0"?>
<catalog>
  <book id="bk101">
    <author>Gambardella, Matthew</author>
    <title>XML Developer's Guide</title>
```

```
<genre>Computer</genre>
<price>44.95</price>
<publish_date>2000-10-01</publish_date>
<description>An in-depth look at creating applications
with XML.</description>
</book>
<book id="bk102">
  <author>Ralls, Kim</author>
  <title>Midnight Rain</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2000-12-16</publish_date>
  <description>A former architect battles corporate zombies,
an evil sorceress, and her own childhood to become queen
of the world.</description>
</book>
<book id="bk103">
  <author>Corets, Eva</author>
  <title>Maeve Ascendant</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2000-11-17</publish_date>
  <description>After the collapse of a nanotechnology
society in England, the young survivors lay the
foundation for a new society.</description>
</book>
<book id="bk104">
  <author>Corets, Eva</author>
  <title>Oberon's Legacy</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2001-03-10</publish_date>
  <description>In post-apocalypse England, the mysterious
agent known only as Oberon helps to create a new life
for the inhabitants of London. Sequel to Maeve
Ascendant.</description>
</book>
<book id="bk105">
  <author>Corets, Eva</author>
  <title>The Sundered Grail</title>
  <genre>Fantasy</genre>
  <price>5.95</price>
  <publish_date>2001-09-10</publish_date>
  <description>The two daughters of Maeve, half-sisters,
battle one another for control of England. Sequel to
Oberon's Legacy.</description>
</book>
```

```
<book id="bk106">
  <author>Randall, Cynthia</author>
  <title>Lover Birds</title>
  <genre>Romance</genre>
  <price>4.95</price>
  <publish_date>2000-09-02</publish_date>
  <description>When Carla meets Paul at an ornithology
    conference, tempers fly as feathers get ruffled.</description>
</book>
<book id="bk107">
  <author>Thurman, Paula</author>
  <title>Splish Splash</title>
  <genre>Romance</genre>
  <price>4.95</price>
  <publish_date>2000-11-02</publish_date>
  <description>A deep sea diver finds true love twenty
    thousand leagues beneath the sea.</description>
</book>
<book id="bk108">
  <author>Knorr, Stefan</author>
  <title>Creepy Crawlies</title>
  <genre>Horror</genre>
  <price>4.95</price>
  <publish_date>2000-12-06</publish_date>
  <description>An anthology of horror stories about roaches,
    centipedes, scorpions  and other insects.</description>
</book>
<book id="bk109">
  <author>Kress, Peter</author>
  <title>Paradox Lost</title>
  <genre>Science Fiction</genre>
  <price>6.95</price>
  <publish_date>2000-11-02</publish_date>
  <description>After an inadvertant trip through a Heisenberg
    Uncertainty Device, James Salway discovers the problems
    of being quantum.</description>
</book>
<book id="bk110">
  <author>O'Brien, Tim</author>
  <title>Microsoft .NET: The Programming Bible</title>
  <genre>Computer</genre>
  <price>36.95</price>
  <publish_date>2000-12-09</publish_date>
  <description>Microsoft's .NET initiative is explored in
    detail in this deep programmer's reference.</description>
</book>
<book id="bk111">
```

```
<author>O'Brien, Tim</author>
<title>MSXML3: A Comprehensive Guide</title>
<genre>Computer</genre>
<price>36.95</price>
<publish_date>2000-12-01</publish_date>
<description>The Microsoft MSXML3 parser is covered in
detail, with attention to XML DOM interfaces, XSLT processing,
SAX and more.</description>
</book>
<book id="bk112">
  <author>Galos, Mike</author>
  <title>Visual Studio 7: A Comprehensive Guide</title>
  <genre>Computer</genre>
  <price>49.95</price>
  <publish_date>2001-04-16</publish_date>
  <description>Microsoft Visual Studio 7 is explored in depth,
looking at how Visual Basic, Visual C++, C#, and ASP+ are
integrated into a comprehensive development
environment.</description>
</book>
</catalog>
```