**XML**

**books.xml**

<?xml version="1.0" encoding="UTF-8"?>

<library>

<book>

<title>The Great Gatsby</title>

<author>F. Scott Fitzgerald</author>

<year>1925</year>

<genre>Fiction</genre>

</book>

<book>

<title>To Kill a Mockingbird</title>

<author>Harper Lee</author>

<year>1960</year>

<genre>Fiction</genre>

</book>

<book>

<title>1984</title>

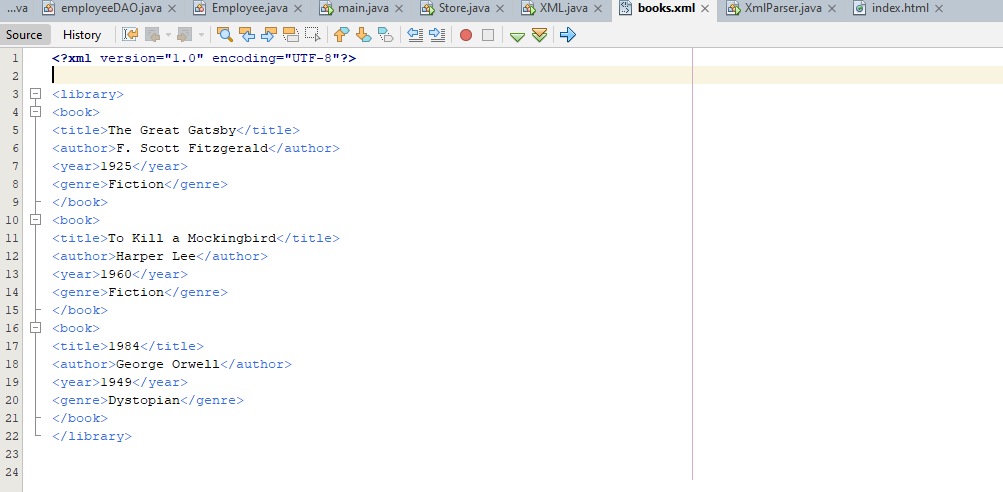
<author>George Orwell</author>

<year>1949</year>

<genre>Dystopian</genre>

</book>

</library>



**XmlParser.java**

package xml;

import org.w3c.dom.\*;

import javax.xml.parsers.\*;

public class XmlParser {

public static void main(String[] args) {

try {

// Create a new DocumentBuilderFactory and DocumentBuilder

DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();

DocumentBuilder builder = factory.newDocumentBuilder();

// Parse the XML file

Document document = builder.parse("D:\\java exercises\\XML\\src\\xml\\books.xml");

// Normalize the document

document.getDocumentElement().normalize();

// Get the root element (library)

NodeList nodeList = document.getElementsByTagName("book");

// Loop through each book in the XML document

for (int i = 0; i < nodeList.getLength(); i++) {

Node node = nodeList.item(i);

if (node.getNodeType() == Node.ELEMENT\_NODE) {

Element element = (Element) node;

// Get and print the details of each book

String title = element.getElementsByTagName("title").item(0).getTextContent();

String author = element.getElementsByTagName("author").item(0).getTextContent();

String year = element.getElementsByTagName("year").item(0).getTextContent();

String genre = element.getElementsByTagName("genre").item(0).getTextContent();

System.out.println("Title: " + title);

System.out.println("Author: " + author);

System.out.println("Year: " + year);

System.out.println("Genre: " + genre);

System.out.println("-----------");

}

}

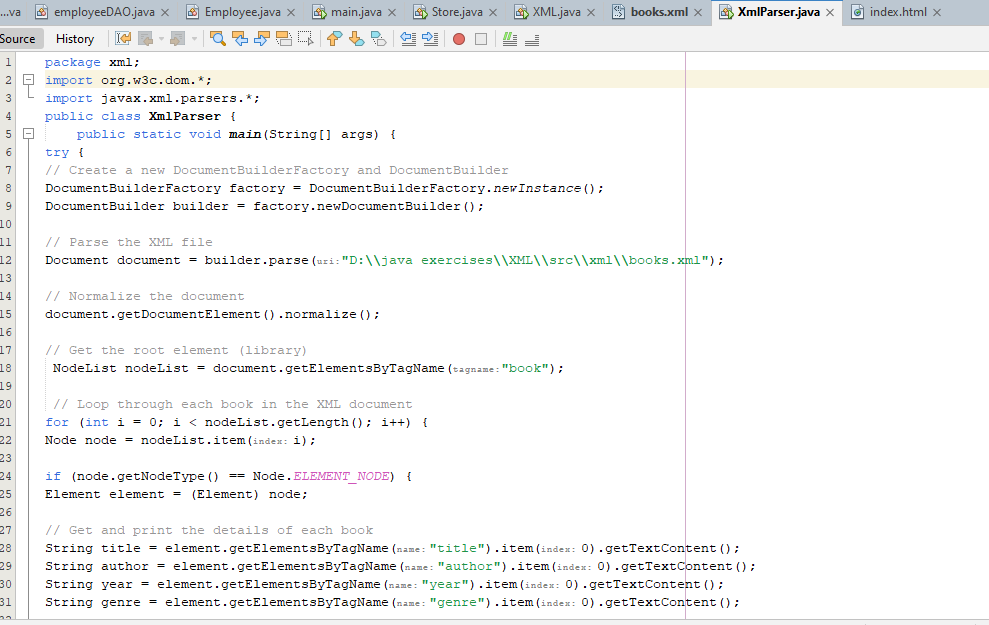
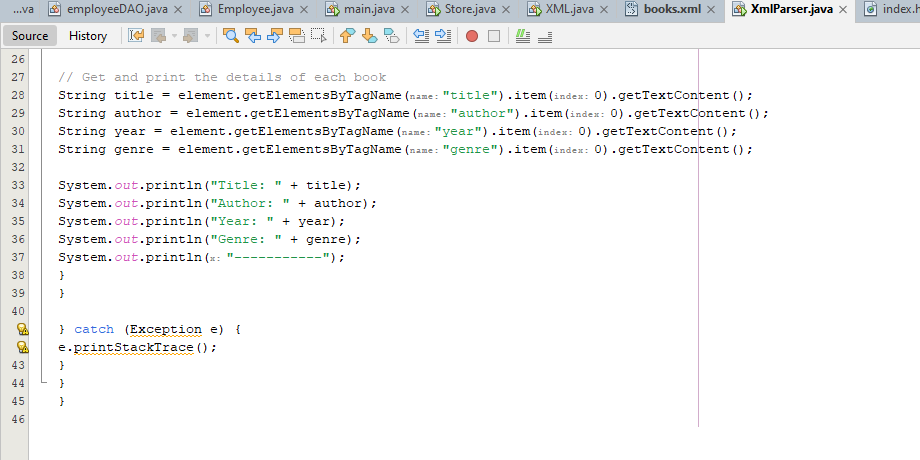
} catch (Exception e) {

e.printStackTrace();

}

}

}



**Output:**

