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Read XML file using DOM Parser1

DOM PARSER ([HTTP://JAVATUTORIALCORNER.COM/CATEGORY/DOM-PARSER/](http://JAVATUTORIALCORNER.COM/CATEGORY/DOM-PARSER/)), [JAVA \(HTTP://JAVATUTORIALCORNER.COM/CATEGORY/JAVA/\)](http://JAVATUTORIALCORNER.COM/CATEGORY/JAVA/), [XML \(HTTP://JAVATUTORIALCORNER.COM/CATEGORY/XML/\)](http://JAVATUTORIALCORNER.COM/CATEGORY/XML/) *November 10, 2013, by Annamalai Thangaraj (<http://javatutorialcorner.com/author/annamalai-thangaraj/>)* [🗨](#)
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In this tutorials we going to see how to read the XML document and iterate the nodes one by one using DOM parser

1. Create Project Called **JavaXML**.
2. Create package called **com.javatutorialscorner.xml.dom** under **JavaXML**.
3. Create Java class called **ReadXML.java** under **com.javatutorialscorner.xml.dom** package.

ReadXML.java

```
package com.javatutorialcorner.xml.dom;
```

```
import java.io.File;
import java.io.IOException;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;

import org.w3c.dom.Document;
import org.w3c.dom.NamedNodeMap;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;
import org.xml.sax.SAXException;

public class ReadXML {

    /**
     * @param args
     */
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        try {
            File xmlFile = new File("C:\\jtc\\student.xml");
            DocumentBuilderFactory builderFactory = DocumentBuilderFactory
                .newInstance();
            DocumentBuilder builder = builderFactory.newDocumentBuilder();
            Document document = builder.parse(xmlFile);
            System.out.println("Root Node : "
                + document.getDocumentElement().getNodeName());

            if (document.hasChildNodes()) {
                NodeList list = document.getChildNodes();
                nodeIterator(list);
            }
        } catch (ParserConfigurationException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (SAXException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        } catch (IOException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    private static void nodeIterator(NodeList list) {

        for (int i = 0; i < list.getLength(); i++) {
            Node node = list.item(i);

            if (node.getNodeType() == Node.ELEMENT_NODE) {
                System.out.println("*****");
                System.out.println("Element Node : " + node.getNodeName()
                    + " [Tag Open]");
                System.out.println("Text Value : " + node.getTextContent());

                if (node.hasAttributes()) {
                    NamedNodeMap map = node.getAttributes();
                    for (int j = 0; j < map.getLength(); j++) {
                        Node node2 = map.item(j);
                        System.out.println("Attribute Name : "
                            + node2.getNodeName());
                        System.out.println("Attribute Value : "
                            + node2.getNodeValue());
                    }
                }
                if (node.hasChildNodes()) {
                    nodeIterator(node.getChildNodes());
                }
            }
        }
    }
}
```

```
        System.out.println("Element Node : " + node.getNodeName()  
        + " [Tag Closed]");  
        System.out.println("*****");  
    }  
  
    }  
    }  
}
```

student.xml

```
<?xml version="1.0" encoding="UTF-8"?>  
<college>  
  <student id="1">  
    <firstname>Shiva</firstname>  
    <lastname>Kumar</lastname>  
    <department>ECE</department>  
  </student>  
  <student id="2">  
    <firstname>Appu</firstname>  
    <lastname>T</lastname>  
    <department>CSE</department>  
  </student>  
</college>
```

Now you can run the program see the following output in console.

Element Node : college [Tag Open]

Text Value :

Shiva

Kumar

ECE

Appu

T

CSE

Element Node : student [Tag Open]

Text Value :

Shiva

Kumar

ECE

Attribute Name : id

Attribute Value : 1

Element Node : firstname [Tag Open]

Text Value : Shiva

Element Node : firstname [Tag Closed]

Element Node : lastname [Tag Open]

Text Value : Kumar

Element Node : lastname [Tag Closed]

Element Node : department [Tag Open]

Text Value : ECE

Element Node : department [Tag Closed]

Element Node : student [Tag Closed]

Element Node : student [Tag Open]

Appu

T

CSE

Attribute Name : id

Attribute Value : 2

Element Node : firstname [Tag Open]

Text Value : Appu

Element Node : firstname [Tag Closed]

Element Node : lastname [Tag Open]

Text Value : T

Element Node : lastname [Tag Closed]

Element Node : department [Tag Open]

Text Value : CSE

Element Node : department [Tag Closed]

Element Node : student [Tag Closed]

Element Node : college [Tag Closed]

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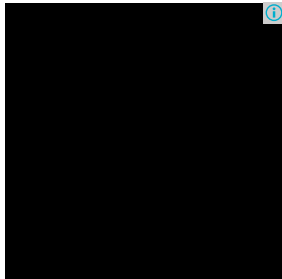
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