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Modify XML file using DOM Parser

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 \(http://javatutorialcorner.com/author/annamalai-thangaraj/\)](http://javatutorialcorner.com/author/annamalai-thangaraj/) 
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In this tutorials we going to see how to modify (add new element, update attribute, update element, delete element)the existing XML document using DOM parser

1. Create Project Called **JavaXML**.
 2. Create package called **com.javatutorialscorner.xml.dom** under **JavaXML**.
 3. Create Java class called **ModifyXML.java** under **com.javatutorialscorner.xml.dom** package.
- ModifyXML.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 javax.xml.transform.Transformer;
import javax.xml.transform.TransformerConfigurationException;
import javax.xml.transform.TransformerException;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;

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

public class ModifyXML {

    /**
     * @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);

            // get first element node of root node
            Node studentNode = document.getElementsByTagName("student").item(0);

            // add new Element
            Element year = document.createElement("year");
            year.appendChild(document.createTextNode("final year"));
            studentNode.appendChild(year);

            // update attribute
            NamedNodeMap attrMap = studentNode.getAttributes();
            Node attrNode = attrMap.getNamedItem("id");
            attrNode.setTextContent("ECE-01");

            NodeList nodeList = studentNode.getChildNodes();

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

                if ("lastname".equals(node.getNodeName())) {
                    // update text node
                    node.setTextContent("k");
                }
                if ("department".equals(node.getNodeName())) {
                    studentNode.removeChild(node);
                }
            }

            TransformerFactory factory = TransformerFactory.newInstance();
            Transformer transformer = factory.newTransformer();
            DOMSource domSource = new DOMSource(document);
            StreamResult streamResult = new StreamResult(new File(
                "C:\\jtc\\student.xml"));
            transformer.transform(domSource, streamResult);

        } catch (SAXException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }
    }
}
```

```

    } catch (IOException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (ParserConfigurationException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (TransformerConfigurationException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (TransformerException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

}

}

```

student.xml

Original XML file

```

<?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 run the program see the XML file modified.

Modified XML file

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?><college>
<student id="ECE-01">
<firstname>Shiva</firstname>
<lastname>k</lastname>
<year>final year</year>
</student>
<student id="2">
<firstname>Appu</firstname>
<lastname>T</lastname>
<department>CSE</department>
</student>
</college>

```

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Create XML File using DOM Parser



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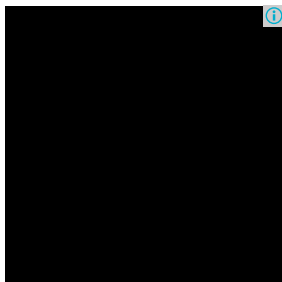
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