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Read XML File using SAX Parser

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In this tutorial we are going to see how to read XML file using SAX parser.

1. Create Project Called **JavaXML**.
2. Create package called **com.javatutorialcorner.xml.sax** under **JavaXML**.
3. Create Java class called **ReadXMLFile.java** under **com.javatutorialcorner.xml.sax** package.

ReadXMLFile.java

```
package com.javatutorialcorner.xml.sax;
```

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

import javax.xml.parsers.ParserConfigurationException;
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;

import org.xml.sax.Attributes;
import org.xml.sax.SAXException;
import org.xml.sax.helpers.DefaultHandler;

public class ReadXMLFile {

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

        try {
            SAXParserFactory saxParserFactory = SAXParserFactory.newInstance();
            SAXParser parser = saxParserFactory.newSAXParser();
            DefaultHandler defaultHandler = new DefaultHandler() {
                boolean firstName = false;
                boolean lastName = false;

                public void startElement(String uri, String localName,
                    String qName, Attributes attribute) throws SAXException {
                    System.out.println("Start Element : " + qName);
                    if (qName.equalsIgnoreCase("FIRSTNAME")) {
                        firstName = true;
                    }
                    if (qName.equalsIgnoreCase("LASTNAME")) {
                        lastName = true;
                    }
                }

                public void endElement(String uri, String localName,
                    String qName) throws SAXException {
                    System.out.println("End Element : " + qName);
                }

                public void characters(char ch[], int start, int length)
                    throws SAXException {
                    if (firstName) {
                        System.out.println("First Name : "
                            + new String(ch, start, length));
                        firstName = false;
                    }
                    if (lastName) {
                        System.out.println("Last Name : "
                            + new String(ch, start, length));
                        lastName = false;
                    }
                }
            };
            parser.parse(new File("C:\\jtc\\student.xml"), defaultHandler);
        } 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();
        }
    }
}
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<college>
<student>
<firstname>Sathish</firstname>
<lastname>J</lastname>
</student>
</college>
```

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

```
Start Element : college

Start Element : student

Start Element : firstname

First Name : Sathish

End Element : firstname

Start Element : lastname

Last Name : J

End Element : lastname

End Element : student

End Element : college
```

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