Code Example

1. Given an XML file

```xml
<?xml version="1.0"?>
<states>
        <state name="California" code="CA">
                <capital>Sacremento</capital>
        <state>
        <state name="New York" code="NY">
                <capital>Albany</capital>
        </state>
</states>
```

2. The Parsing Code

```java
package test;

import org.gnu.xml.ezparse.Context;
import org.gnu.xml.ezparse.DefaultContext;
import org.gnu.xml.ezparse.Element;
import org.gnu.xml.ezparse.ElementAdapter;
import org.gnu.xml.ezparse.SimpleParser;

import java.util.List;
import java.util.LinkedList;

public class SimpleParserTest
{
        public static void main(String[] args)
                throws Exception
        {
                SimpleParser simpleParser = new SimpleParser();
                Context ctx = new DefaultContext();
                ctx.set("stateList", new LinkedList());

                addListeners( simpleParser );

                simpleParser.parse(args[0], ctx);

                printStates( ctx );
        }

        /**
         * Add listeners to the parser.
```

```
 *
 * @param simpleParser the parser to add listeners to
 */
private static void addListeners( SimpleParser simpleParser )
{
        //first listener
        simpleParser.addElementListener("/states/state",
                        new ElementAdapter()
                        {
                                public void startElement( Element element, Cont
                                {
                                        StateEssence essence = new StateEssence
                                        ctx.set("essence", essence);
                                }

                                public void endElement( Element element, Contex
                                {
                                        StateEssence essence =
                                                (StateEssence) ctx.get("essence
                                        essence.name = element.getAttribute("na
                                        essence.code = element.getAttribute("co

                                        List states = (List) ctx.get("stateList
                                        states.add( new State( essence ) );
                                }
                        }
                );

        //second listener
        simpleParser.addElementListener("/states/state/capital",
                        new ElementAdapter()
                        {
                                public void endElement( Element element, Contex
                                {
                                        StateEssence essence =
                                                (StateEssence) ctx.get("essence
                                        essence.capital = element.getValue();
                                }
                        }
                );

}

/**
 * Prints information about each state to standard out.
 */
private static void printStates( Context ctx )
{
        List list = (List) ctx.get("stateList");
        State[] states = (State[]) list.toArray( new State[ list.size() ] );

        for(int i=0; i<states.length; i++)
        {
                System.out.println( states[i].toString() );
```

Code Example

```
                    }
            }
}
```

3. The Output

```
State[name=California, code=CA, captial=Sacremento]
State[name=New York, code=NY, captial=Albany]
```