



```
package ch.nabix.xml;

import java.io.IOException;
import org.w3c.dom.*;
import org.xml.sax.SAXException;
import javax.xml.parsers.*;
import javax.xml.xpath.*;

public class XPathExemple {

    static public NodeList runQuery(String docUri, String query)
        throws ParserConfigurationException, SAXException,
            IOException, XPathExpressionException {

        DocumentBuilderFactory domFactory = DocumentBuilderFactory.newInstance();
        domFactory.setNamespaceAware(true); // never forget this!
        DocumentBuilder builder = domFactory.newDocumentBuilder();
        Document doc = builder.parse(docUri);

        XPathFactory factory = XPathFactory.newInstance();
        XPath xpath = factory.newXPath();
        XPathExpression expr
            = xpath.compile(query);

        Object result = expr.evaluate(doc, XPathConstants.NODESET);
        NodeList nodes = (NodeList) result;
        return nodes;
    }

    static public void queryTest()
        throws ParserConfigurationException, SAXException,
            IOException, XPathExpressionException {
        print(runQuery("./courses.xml", "/info/*"));
    }

    static public void print(NodeList nodes)
        throws ParserConfigurationException, SAXException,
            IOException, XPathExpressionException {
        for (int i = 0; i < nodes.getLength(); i++) {
            System.out.println("Node name = " + nodes.item(i).getNodeName() +
                "; Node value = " + nodes.item(i).getNodeValue() +
                "; Node text = " + nodes.item(i).getTextContent());
        }
    }

    public static void main(String[] args)
        throws ParserConfigurationException, SAXException,
            IOException, XPathExpressionException {
        System.out.println("*****begin*****");
        System.out.println("run query Test");
        queryTest();
        System.out.println("*****end*****");
    }
}
```