MEDAC
Instituto Oficial de Formación Profesional

Técnico en desarrollo de

aplicaciones multiplataforma.

Acceso a Datos.

Tema 3. Práctica

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Practica 3_1

1. Ejercicio 1

1.4

```java
16  public class Main {
17
18●     public static void main(String[] args) throws IOException, ParserConfigurationException {
19          DocumentBuilderFactory fact = DocumentBuilderFactory.newInstance();
20
21          fact.setValidating(true);
22          fact.setIgnoringElementContentWhitespace(true);
23
24          DocumentBuilder builder = fact.newDocumentBuilder();
25
26          try {
27              File file3_3 = new File("/Users/cerrchus/Computer Science/MEDAC/Year2/23310TA_acessoADatos/Tareas/pr_3_1/tema3_3.xml");
28              Document doc = builder.parse(file3_3);
29              doc.getDocumentElement().normalize();
30
31              System.out.println("XML Content: ");
32              System.out.println(doc.getDocumentElement().getTextContent());
33
34
35          }catch(SAXException e) {
36              e.printStackTrace();
37          }
38
39
```

```
Problems   Javadoc   Declaration   Console ×   Terminal
<terminated> Main (1) [Java Application] /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/Home/bin/java  (Oct 13, 2024, 11:30:25 AM – 11:30:26 AM) [pid: 15512]
XML Content:
dinkarkaddinkar85vaneetGuptavinni95jasvirsinghjazz90
```

2.7

```java
package p_3_1;

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.xpath.XPath;
import javax.xml.xpath.XPathConstants;
import javax.xml.xpath.XPathExpressionException;
import javax.xml.xpath.XPathFactory;

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

public class Main {

    public static void main(String[] args) throws IOException, ParserConfigurationException, XPathExpressionException {
        DocumentBuilderFactory fact = DocumentBuilderFactory.newInstance();

        fact.setValidating(true);
        fact.setIgnoringElementContentWhitespace(true);

        DocumentBuilder builder = fact.newDocumentBuilder();

        try {
            File file3_3 = new File("/Users/cerrchus/Computer Science/MEDAC/Year2/23310TA_acessoADatos/Tareas/pr_3_1/tema3_3.xml");
            Document doc = builder.parse(file3_3);
            doc.getDocumentElement().normalize();

            System.out.println("XML Content: ");
            System.out.println(doc.getDocumentElement().getTextContent());

            XPath xPath = XPathFactory.newInstance().newXPath();

            String expression = "/class/student";

            NodeList nodeList = (NodeList) xPath.compile(expression).evaluate(doc, XPathConstants.NODESET);

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

                System.out.println("\nCurrent Element: " + nNode.getNodeName());
                Element eElement = (Element) nNode;
                System.out.println("Student roll No.: " + eElement.getAttribute("rollno"));
                System.out.println("First Name: "
                        + eElement
                        .getElementsByTagName("firstname")
                        .item(0)
                        .getTextContent());
            }

        }catch(SAXException e) {
            e.printStackTrace();
        }
```

```
<terminated> Main (1) [Java Application] /Library/Java/JavaVirtualMachines/jdk-21.jdk/Contents/Home/bin/java  (Oct 13, 2024, 11:51:02 AM – 11:51:03 AM) [pid: 15590]
XML Content:
dinkarkaddinkar85vaneetGuptavinni95jasvirsinghjazz90

Current Element: student
Student roll No.: 393
First Name: dinkar

Current Element: student
Student roll No.: 493
First Name: vaneet

Current Element: student
Student roll No.: 593
First Name: jasvir
```

git repo: **here**

2.