

# Exercise 7 - Accessing XML Data Using DOM

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1.Xml code :

```
<?xml version="1.0"?>
<SRM>
  <student id="1">
    <firstname>kishore</firstname>
    <lastname>M</lastname>
    <email>kishore.kishore.m@gmail.com</email>
    <department>cse</department>
    <cgpa>6</cgpa>
  </student>
  <student id="2">
    <firstname>sai</firstname>
    <lastname>varun</lastname>
    <email>saivarun123@gmail.com</email>
    <department>cse</department>
    <cgpa>9</cgpa>
  </student>
</SRM>
```

2. Java code :

```
package test;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.DocumentBuilder;
import org.w3c.dom.Document;
import org.w3c.dom.NodeList;
import org.w3c.dom.Node;
import org.w3c.dom.Element;
import java.io.File;
public class k {
  public static void main(String argv[]) {
    final String xmlFilePath =
"C:\\Users\\Kishore\\eclipse-workspace\\test\\WebContent\\kishore.xml";
    try {
      File xmlFile = new File(xmlFilePath);
      DocumentBuilderFactory documentBuilderFactory =
DocumentBuilderFactory.newInstance();
```

```

DocumentBuilder documentBuilder =
documentBuilderFactory.newDocumentBuilder();
Document doc = documentBuilder.parse(xmlFile);
doc.getDocumentElement().normalize();
System.out.println("Root element :" +
doc.getDocumentElement().getNodeName());
NodeList nodeList = doc.getElementsByTagName("student");
System.out.println("=====");
//do this the old way, because nodeList is not iterable
for (int itr = 0; itr < nodeList.getLength(); itr++) {
Node node = nodeList.item(itr);
System.out.println("\nNode Name :" + node.getNodeName());
if (node.getNodeType() == Node.ELEMENT_NODE) {
Element eElement = (Element) node;
System.out.println("student id : "
+ eElement.getAttribute("id"));
System.out.println("First Name : "
+ eElement.getElementsByTagName("firstname")
.item(0).getTextContent());
System.out.println("Last Name : "
+ eElement.getElementsByTagName("lastname").item(0)
.getTextContent());
System.out.println("Email : "
+ eElement.getElementsByTagName("email").item(0)
.getTextContent());
System.out.println("Department : "
+ eElement.getElementsByTagName("department").item(0)
.getTextContent());
System.out.println("cgpa : "
+ eElement.getElementsByTagName("cgpa").item(0)
.getTextContent());
}
}
} catch (Exception e) {
e.printStackTrace();
}
}
}

```

