**XML作业**

1.考虑下面的XML文件，文件名为5.4.xml。

<?xml version = "1.0"?>

<!DOCTYPE Root[<!ENTITY First "<First>DOM</First>">]>

<Root>

&First;

<Second>SAX</Second>

</Root>

解：

建立一个使用DOM API的Java程序的代码如下：

import javax.xml.parsers.DocumentBuilder;

import javax.xml.parsers.DocumentBuilderFactory;

import org.w3c.dom.Document;

import org.w3c.dom.Element;

import org.w3c.dom.Node;

import org.w3c.dom.NodeList;

public class ParseXml {

Element root=null;

public ParseXml()

{

try

{

DocumentBuilderFactory factory=DocumentBuilderFactory.newInstance();

DocumentBuilder builder=factory.newDocumentBuilder();

Document doc=builder.parse("5.4.xml");

doc.normalize();

root=doc.getDocumentElement();

}

catch(Exception e)

{

System.out.println(e);

}

}

public void parse()

{

System.out.println("<?xml version=\"1.0\"?>");

System.out.println("<"+root.getNodeName()+">");

NodeList children=root.getChildNodes();

for(int i=0;i<children.getLength();i++)

{

Node child=children.item(i);

if(child.getNodeType()==Node.ELEMENT\_NODE)

{

System.out.print("<"+child.getNodeName()+">");

System.out.print(child.getFirstChild().getNodeValue());

System.out.println("</"+child.getNodeName()+">");

}

}

System.out.println("</"+root.getNodeName()+">");

}

public static void main(String[] args)

{

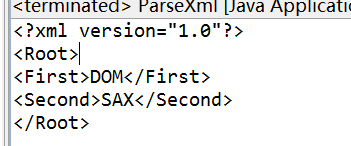
ParseXml parseSimpleXml=new ParseXml();

parseSimpleXml.parse();

}

}

运行结果截图如下：



2. 用DOM接口生成如下内容并且把它们写到一个新的XML文档中。

<?xml version="1.0" encoding="UTF-8"?>

<Team>

<TeamMember>

<Empno value="30772" />

<Name value="Manjeet Singh" />

<Designation value="Team Leader." />

</TeamMember>

</Team>

解：

Java程序代码如下：

import javax.xml.parsers.DocumentBuilder;

import javax.xml.parsers.DocumentBuilderFactory;

import javax.xml.transform.Transformer;

import javax.xml.transform.TransformerFactory;

import javax.xml.transform.dom.DOMSource;

import javax.xml.transform.stream.StreamResult;

import org.w3c.dom.Document;

import org.w3c.dom.Element;

import org.w3c.dom.Attr;

public class CreatXml {

public static void main(String[] args)

{

try

{

DocumentBuilderFactory factory=DocumentBuilderFactory.newInstance();

DocumentBuilder builder=factory.newDocumentBuilder();

Document doc=builder.newDocument();

Element team=doc.createElement("Team");

Element teamMember=doc.createElement("TeamMember");

Element empno=doc.createElement("Empno");

Attr empnoValue = doc.createAttribute("value");

empno.setAttribute(empnoValue.getNodeName(),"30772");

Element name=doc.createElement("Name");

Attr nameValue=doc.createAttribute("value");

name.setAttribute(nameValue.getNodeName(),"Manjeet Singh");

Element designation=doc.createElement("Designation");

Attr designationValue = doc.createAttribute("value");

designation.setAttribute(designationValue.getNodeName(),"Team Leader.");

team.appendChild(teamMember);

teamMember.appendChild(empno);

teamMember.appendChild(name);

teamMember.appendChild(designation);

doc.appendChild(team);

TransformerFactory tFactory=TransformerFactory.newInstance();

Transformer transformer=tFactory.newTransformer();

DOMSource source=new DOMSource(doc);

StreamResult result=new StreamResult(new java.io.File("4.5.xml"));

transformer.transform(source, result);

}

catch(Exception e)

{

e.printStackTrace();

}

}

}

运行后新建的xml文件在java程序的文件夹里了

