PROJECT 2B

HTML

```html
<!DOCTYPE html>
<html>
<head>
<title>html to xml operation</title>
</head><body><h3>Enter the student details to enroll </h3>
<form action="StudentServlet" method="Get">
first name:<input type="text" name="fname" /> <br />
last name :<input type="text" name="lname" /> <br />
Reg number:<input type="number" name="reg" /> <br />
<input type="submit" value="Submit" />
</form>
</body>
</html>
```

import java.io.IOException;

```java
import java.io.File;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.xml.parsers.DocumentBuilder;

import javax.xml.parsers.DocumentBuilderFactory;

import javax.xml.transform.OutputKeys;

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.Attr;

import org.w3c.dom.Document;
```

```java
import org.w3c.dom.Element;

@WebServlet("/StudentServlet")

public class StudentServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

int i = 0;

String p1, p2, p3;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

p1 = request.getParameter("fname");

p2 = request.getParameter("lname");

p3 = request.getParameter("reg");

PrintWriter out = response.getWriter();

out.println("<!DOCTYPE html><html><body>Insertion Sucessful</body></html>");

String filename = "C:\\Users\\MUKESH\\Desktop\\muk.xml";

try {

DocumentBuilderFactory documentBuilderFactory =
DocumentBuilderFactory.newInstance();

DocumentBuilder documentBuilder = documentBuilderFactory.newDocumentBuilder();

TransformerFactory transformerfactory = TransformerFactory.newInstance();

Transformer transformer = transformerfactory.newTransformer();

StreamResult streamresult = new StreamResult(new File(filename));

if (i == 0) {

Document document = documentBuilder.newDocument();

transformer.setOutputProperty(OutputKeys.DOCTYPE_SYSTEM, "xmll.dtd");

Element students = document.createElement("students");

document.appendChild(students);

action(document, students);

DOMSource source = new DOMSource(document);

transformer.transform(source, streamresult);

} else {

Document document = documentBuilder.parse(filename);
```
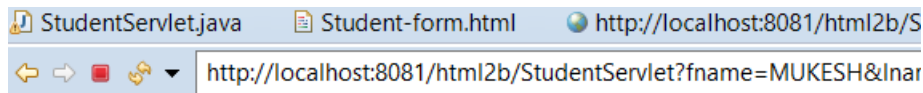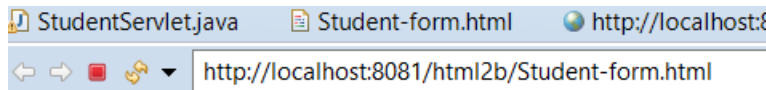
```java
transformer.setOutputProperty(OutputKeys.DOCTYPE_SYSTEM, "xmll.dtd");

Element students = document.getDocumentElement();

action(document, students);

DOMSource source = new DOMSource(document);

transformer.transform(source, streamresult);

}

} catch (Exception e) {

}

}

private void action(Document document, Element students) {

Element student = document.createElement("student");

students.appendChild(student);

Attr attr = document.createAttribute("id");

attr.setValue(Integer.toString(++i));

student.setAttributeNode(attr);

Element fname = document.createElement("fname");

fname.appendChild(document.createTextNode(p1));

student.appendChild(fname);

Element lname = document.createElement("lname");

lname.appendChild(document.createTextNode(p2));

student.appendChild(lname);

Element reg = document.createElement("reg");

reg.appendChild(document.createTextNode(p3));

student.appendChild(reg);

}

}
```

Insertion Sucessful

## Enter the student details to enroll

first name: MUKESH
last name : DR
Reg number: 118          ×

Submit

BEFORE INSERTION

<XML VERSION="1.0" encoding="UTF-8">

<students id='1>

AFTER INSERTION OF DATA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE students SYSTEM "xmll.dtd">
- <students>
    - <student id="1">
          <fname>MUKESH</fname>
          <lname>D R </lname>
          <reg>118</reg>
      </student>
  </students>
```