

write a simple DOM program to read the contents of xml file?

```
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;
class DomParserDemo
{
    public static void main(String argv[])
    {
        try
        {
            File xmlFile = new File("student.xml");
            DocumentBuilderFactory dbf =
DocumentBuilderFactory.newInstance();
            DocumentBuilder db = dbf.newDocumentBuilder();
            Document doc = db.parse(xmlFile);
            doc.getDocumentElement().normalize();
            System.out.println("Root element : " +
doc.getDocumentElement()

            .getNodeName());
            NodeList nodeList = doc.getElementsByTagName("student");

            System.out.println("=====");
;
            for (int i = 0; i < nodeList.getLength(); i++)
            {
                Node node = nodeList.item(i);
                System.out.println("\nNode Name : " +
node.getNodeName());
                if (node.getNodeType() == Node.ELEMENT_NODE)
                {
                    Element eElement = (Element) node;
                    System.out.println("Rollnum: "+
eElement.getElementsByTagName("num")

                    .item(0).getTextContent());
                    System.out.println("Name: "+
eElement.getElementsByTagName("name")

                    .item(0).getTextContent());
                    System.out.println("Marks : "+
eElement.getElementsByTagName("marks")

                    .item(0).getTextContent());
                }
            }
            catch (Exception e)
            {
                e.printStackTrace();
            }
        }
    }
}
```

student.xml

```
<class>
    <student>
        <num>1201</num>
        <name>HARI</name>
        <marks>88</marks>
    </student>
    <student>
        <num>1211</num>
        <name>RAMU</name>
        <marks>77</marks>
    </student>
</class>
```

Write a Servlet program to read the parameters from database and display welcome message

Register.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>Login form</title>
    </head>
    <body>
        <form method="post" action="Login">
            Username :<input type="text" name="a" /><br/><br/>
            Password :<input type="password" name="b" /><br/><br/>
            <input type="submit" value="Login" />
        </form>
    </body>
</html>
```

Login.java

```
import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class Login extends GenericServlet {

    private String uid,pd,em;
    public void service(ServletRequest req,ServletResponse res) throws
        ServletException,IOException
    {
        uid=req.getParameter("a");
        pd=req.getParameter("b");
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","sy
stem","vbit");
            PreparedStatement st = con.prepareStatement("Select
uname,pass from emp where uname=? and pass=?");
            st.setString(1, uid);
            st.setString(2, pd);
```

```

        ResultSet rs = st.executeQuery();
        if (rs.next())
        {
            out.println("welcome");
        }
        else
        {
            out.println("Incorrect login credentials");
        }
    }
    catch (ClassNotFoundException | SQLException e) {
        e.printStackTrace();
    }
}
}

```

web.xml

```

<web-app>
    <servlet>
        <servlet-name>Login</servlet-name>
        <servlet-class>Login</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>Login</servlet-name>
        <url-pattern>/Login</url-pattern>
    </servlet-mapping>
</web-app>

```

Write a Servlet program to read initialization parameters using ServletConfig and ServletContext object.

login.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
    <form action="ValidServ" method="post">
        Username: <input type="text" name="txtuser" /><br/>
        Password: <input type="password" name="txtpass" /><br/>
        <input type="submit" value="Submit" />
        <input type="reset" value="clear" />
    </form>
</body>
</html>

```

ValidServ.java

```

import java.io.IOException;
import java.util.Enumeration;
import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;

```

```

import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class ValidServ
 */
public class ValidServ extends HttpServlet {
    private static final long serialVersionUID = 1L;

    ServletConfig cfg;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ValidServ() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see Servlet#init(ServletConfig)
     */
    public void init(ServletConfig config) throws ServletException {
        cfg = config;
    }

    public void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        String un = request.getParameter("txtuser");
        String pw = request.getParameter("txtpass");
        boolean flag = false;
        Enumeration<String> initparams = cfg.getInitParameterNames();
        while(initparams.hasMoreElements())
        {
            String name = initparams.nextElement();
            String pass = cfg.getInitParameter(name);
            if(un.equals(name) && pw.equals(pass))
            {
                flag = true;
            }
        }
        if(flag)
        {
            response.getWriter().print("Valid user!");
        }
        else
        {
            response.getWriter().print("Invalid user!");
        }
    }
}

```

web.xml

```

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

```

```

<servlet-name>ValidServ</servlet-name>
<servlet-class>ValidServ</servlet-class>
<init-param>
    <param-name>user1</param-name>
    <param-value>pass1</param-value>
</init-param>
<init-param>
    <param-name>user2</param-name>
    <param-value>pass2</param-value>
</init-param>
<init-param>
    <param-name>user3</param-name>
    <param-value>pass3</param-value>
</init-param>
<init-param>
    <param-name>user4</param-name>
    <param-value>pass4</param-value>
</init-param>
</servlet>
<servlet-mapping>
    <servlet-name>ValidServ</servlet-name>
    <url-pattern>/ValidServ</url-pattern>
</servlet-mapping>
</web-app>

```

Write a JDBC Program to insert values into a student table in the database using servlets

registration.html

```

<html>
<body>
    <h1> REGISTRATION PAGE</h1>
    <form action="Register" method = "GET">

        Enter num:<input type="text" name="a"><br><br>
        Enter name:<input type="text" name="b"><br><br>
        Enter marks:<input type="text" name="c"><br><br>
        <input type="submit" value="SUBMIT">
    </form>
</body>
</html>

```

Register.java

```

import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class Register extends GenericServlet
{
    private String snum,sname,smarks;

    public void service(ServletRequest req,ServletResponse res) throws
    ServletException,IOException
    {
        snum=req.getParameter("a");
        sname=req.getParameter("b");
        smarks=req.getParameter("c");
    }
}

```

```

        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","sy
stem","vbit");
        PreparedStatement st=con.prepareStatement("insert into student
values(?,?,?)");
        st.setString(1,snum);
        st.setString(2,sname);
        st.setString(3,smarks);
        st.executeUpdate();
        out.print("student data inserted successfully");
        con.close();
    }
    catch(SQLException s)
    {
        out.println("not found "+s);
    }
    catch(ClassNotFoundException c)
    {
        out.println("not found "+c);
    }
}

```

web.xml

```

<web-app>
    <servlet>
        <servlet-name>Register</servlet-name>
        <servlet-class>Register</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Register</servlet-name>
        <url-pattern>/Register</url-pattern>
    </servlet-mapping>

</web-app>

```

Write a JDBC Program to perform various DML Operations on the database using Statement using JSP.

hello.html

```

<!DOCTYPE html>
<html>
    <head>
        <title>Login form</title>
    </head>
    <body>

```

```

<h1>STUDENT DATA SEARCH </h1>

    <form method="get" action="Login">
        Roll Num :<input type="text" name="a" /><br/><br/>
        <input type="submit" value="search" />
    </form>
</body>
</html>

```

Login.java

```

import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class Login extends GenericServlet {

    private String n;
    public void service(ServletRequest req,ServletResponse res) throws
        ServletException,IOException
    {
        n=req.getParameter("a");
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection c = DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","system","vbit");
            PreparedStatement st = c.prepareStatement("Select * from
student where num=?");
            st.setString(1, n);
            ResultSet r = st.executeQuery();
            while(r.next())
            {
                out.println(r.getString(1)+" "+r.getString(2)+"
"+r.getInt(3)+"<br>");
            }
            c.close();
        }
        catch(Exception e)
        {
            System.out.println("Exception:"+e);
        }
    }
}

```

web.xml

```

<web-app>
</servlet-mapping>
    <servlet>
        <servlet-name>Login</servlet-name>
        <servlet-class>Login</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Login</servlet-name>
        <url-pattern>/Login</url-pattern>
    </servlet-mapping>
</web-app>

```

```

        </servlet-mapping>
</web-app>

```

write a simple jsp program?

```

<%@ page language="java"contentType="text/html"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
    "http://www.w3.org/TR/html4/loose.dtd">
<html>
    <head>
        <title>Insert title here</title>
    </head>
    <body>
        <center>
            <font color="red" size="7"> Hello World! </font> <br>

            <font color="green" size="5"> The date and time now is: <%= new
java.util.Date() %>
        </center>
    </body>
</html>

```

write jsp application that takes a name as input and on submit it shows a welcome<name> page where <name> is taken from the request

index.html

```

<form action="welcome.jsp">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>

```

welcome.jsp

```

<%
String name=request.getParameter("uname");
out.print("welcome "+name);
%>

```

A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "hello <name>,and u are not authorized to visit this site" otherwise it should send "welcome <name> to this site" message where name should be replaced with the entered name otherwise it should send welcome<name> to the site message.

Form2.html

```

<form action='home.php' method='post'>
Login<br>
User name: <input type='text' name='name'><br>
age: <input type='text' name='age'><br>
<input type='submit' value='Login'>

```

home.php

```

<?php
$name = $_POST['name'];
$age = $_POST['age'];
if ($age < 18)

```



```

        print "Hello " . $name . " you are not authorized to visit this
site.";
    else
        print "Welcome " . $name . " to this site."
    ?>

```

A web application that lists all cookies stored in the browser on clicking "list cookies" button, add cookies if necessary

```

setcookies.php
<?php
$firstname = 'aaa';
$middlename = 'bbb';
$lastname = 'ccc';
setcookie('first_name',$firstname,time() + 86400);
setcookie('middle_name',$middlename,time() + 86400);
setcookie('last_name',$lastname,time() + 86400);
print "cookies set";
?>

```

Listcookies.php

```

<?php
if(!empty($_COOKIE))
{
    foreach ($_COOKIE as $key=>$val)
    {
        echo $key.' is '.$val."<br>\n";
    }
}
else {
    echo 'There are no Cookies, you must set some cookies.';
}
?>

```

A web application takes a name as input and on submit it shows a hello<name> page where <name> is taken from the request. and it shows a start time at the right top corner of the page and provides the logout button on clicking this button it should show a logout page with thankyou<name> message with the duration of Usage.

Login.html

```

<html>
    <form action="home.php" method="post">
    Username<input type="text" name="text1"><br>
    <input type="submit" value="SignIn" name="submit">
    </form>
</html>

```

Home.php

```

<?php
    session_start();
    date_default_timezone_set("Asia/Calcutta");

    $_SESSION['luser'] = $_POST['text1'];
    $_SESSION['start'] = time();
    $tm=$_SESSION['start'];
    print "<p align='right'>Session started at " . date("h:i:sa",$tm) .
    "<br>";

```

```
print "<form action='logoutpage.php' method='post'>";
print "<input type='submit' value='Logout'></p>";
print "</form>";
print "Hello " . $_SESSION['luser'];
?>
```

Logoutpage.php

```
<?php
    session_start();
    date_default_timezone_set("Asia/Calcutta");
    print "<p align='right'>Session started at " . date("h:i:sa",time())
. "</p><br>";
    print "Thank you " . $_SESSION['luser'];
    $sessiontime = time() - $_SESSION['start'];
    print "<br> Your session duration: " . $sessiontime . " seconds";
    session_destroy();
?>
```