**1.Write a servlet program to read the html form data using servelet**

**HelloForm.java**

// Import required java libraries

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

// Extend HttpServlet classpublic class HelloForm extends HttpServlet {

// Method to handle GET method request.

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

// Set response content type

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String title = "Using GET Method to Read Form Data";

String docType =

"<!doctype html public \"-//w3c//dtd html 4.0 " +

"transitional//en\">\n";

out.println(docType +

"<html>\n" +

"<head><title>" + title + "</title></head>\n" +

"<body bgcolor = \"#f0f0f0\">\n" +

"<h1 align = \"center\">" + title + "</h1>\n" +

"<ul>\n" +

" <li><b>First Name</b>: "

+ request.getParameter("first\_name") + "\n" +

" <li><b>Last Name</b>: "

+ request.getParameter("last\_name") + "\n" +

"</ul>\n" +

"</body>"

"</html>"

);

}

// Method to handle POST method request.

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}}

**Hello.html**

<html>

<body>

<form action = "HelloForm" method = "POST">

First Name: <input type = "text" name = "first\_name">

<br />

Last Name: <input type = "text" name = "last\_name" />

<input type = "submit" value = "Submit" />

</form>

</body></html>

**Web.xml**

<servlet>

<servlet-name>HelloForm</servlet-name>

<servlet-class>HelloForm</servlet-class></servlet>

<servlet-mapping>

<servlet-name>HelloForm</servlet-name>

<url-pattern>/HelloForm</url-pattern></servlet-mapping>

1. **Write a PHP program to create a session management**

**session1.php**

<?php

session\_start();

?>

<html> <body>

<?php

$\_SESSION["user"] = "Sachin";

echo "Session information are set successfully.<br/>";

?>

<a href="session2.php">Visit next page</a>

</body> </html>

**session2.php**

<?php

session\_start();

?>

<html>

<body>

<?php

echo "User is: ".$\_SESSION["user"];

?>

</body>

</html>

1. **PHP program to Create a web application to validate user name and password against database.**

**authen\_login.php**

<?php

$servername = "localhost";

$username = "root"; $password = ""; $dbname = "myDB111";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if (isset($\_POST['user\_id']) and isset($\_POST['user\_pass']))

{ // Assigning POST values to variables.

$username = $\_POST['user\_id'];

$password = $\_POST['user\_pass'];

// CHECK FOR THE RECORD FROM TABLE

$query = "SELECT \* FROM `user\_login` WHERE username='$username' and Password='$password'";

$result = mysqli\_query($conn, $query) or die(mysqli\_error($conn));

$count = mysqli\_num\_rows($result);

if ($count == 1){ //echo "Login Credentials verified";

echo "<script type='text/javascript'>alert('Login Credentials verified')</script>";

}else{

echo "<script type='text/javascript'>alert('Invalid Login Credentials')</script>";

//echo "Invalid Login Credentials";

}

} ?>

**Loginform.html**

<!DOCTYPE html >

<html>

<head>

<title> LOGIN FORM</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div <div align="center">

<h3> LOGIN FORM</h3>

<form id="login-form" method="post" action="authen\_login.php" >

<table border="0.5" >

<tr><td><label for="user\_id">User Name</label></td>

<td><input type="text" name="user\_id" id="user\_id"></td></tr>

<tr><td><label for="user\_pass">Password</label></td>

<td><input type="password" name="user\_pass" id="user\_pass"></input></td>

</tr>

<tr><td><input type="submit" value="Submit" />

<td><input type="reset" value="Reset"/> </tr>

</table> </form> </div>

</body> </html>

**4.Write a program to demonstrate XML DOM/SAX parser ?**

**DOM Parser**

**file.xml:**

<?xml version="1.0"?>

<company>

<users id="1001">

<user>mgit</user>

</users>

<users id="2001">

<user>cbit</user>

</users>

</company>

**ParseDOM.java**

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;

import java.util.Scanner;

public class Parse

{ public static void main(String argv[])

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your name");

String name=sc.next();

try

{ File fXmlFile = new File("file.xml");

DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance();

DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();

Document doc = dBuilder.parse(fXmlFile);

doc.getDocumentElement().normalize();

NodeList nList = doc.getElementsByTagName("users");

System.out.println("----------------------------");

for (int temp = 0; temp < nList.getLength(); temp++)

{

Node nNode = nList.item(temp);

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

{

Element eElement = (Element) nNode;

String tuname=eElement.getElementsByTagName("user").item(0).getTextContent();

if(tuname.equals(name))

{

System.out.println("success");

System.exit(0);

}

}

}

}

catch (Exception e)

{ e.printStackTrace();

}

System.out.println("unauthirzed");

} }

**SAX Program**

**File.xml:**

<?xml version="1.0"?>

<company>

<users id="1001">

<user>mgit</user>

</users>

<users id="2001">

<user>cbit</user>

</users>

</company>

**ParseSax.java**

import javax.xml.parsers.SAXParser;

import javax.xml.parsers.SAXParserFactory;

import org.xml.sax.Attributes;

import org.xml.sax.SAXException;

import org.xml.sax.helpers.DefaultHandler;

import java.util.\*;

public class ParseSax { public static void main(String argv[])

{ Scanner sc=new Scanner(System.in); System.out.println("Enter your name");

String name=sc.next();

try

{ SAXParserFactory factory = SAXParserFactory.newInstance();

SAXParser saxParser = factory.newSAXParser();

DefaultHandler handler = new DefaultHandler()

{ boolean buname = false;

public void startElement(String uri, String localName,String qName,

Attributes attributes) throws SAXException

{ if (qName.equalsIgnoreCase("user")) { buname = true; }

}

public void endElement(String uri, String localName, String qName) throws SAXException

{ System.out.println("End Element :" + qName);

}

public void characters(char ch[], int start, int length) throws SAXException {

if (buname) { String s=new String(ch, start, length);

if(s.equals(name)) { System.out.println("success"); System.exit(0); }

buname = false; }

} };

saxParser.parse("file.xml", handler);

} catch (Exception e) { e.printStackTrace();}

System.out.print("unauthrized"); } }

**5..Write a servelet program to create the HTTP servlet?**

**index.html**

<form method="post" action="check">

Name <input type="text" name="user" >

<input type="submit" value="submit">

</form>

**web.xml**

<servlet>

<servlet-name>check</servlet-name>

<servlet-class>MyServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>check</servlet-name>

<url-pattern>/check</url-pattern>

</servlet-mapping>

**MyServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

 public class MyServlet extends HttpServlet {

  protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

**String user=request.getParameter("user");**

out.println("<h2> Welcome "+user+"</h2>");

} finally {

out.close();

}

} }

**6.a) Reading the initializing parameters using servletconfig object?**

****DemoServlet.java****

1. **import** java.io.\*;
2. **import** javax.servlet.\*;
3. **import** javax.servlet.http.\*;
5. **public** **class** DemoServlet **extends** HttpServlet {
6. **public** **void** doGet(HttpServletRequest request, HttpServletResponse response)
7. **throws** ServletException, IOException {
9. response.setContentType("text/html");
10. PrintWriter out = response.getWriter();
12. ServletConfig config=getServletConfig();
13. String driver=config.getInitParameter("driver");
14. out.print("Driver is: "+driver);
16. out.close();
17. }
19. }

****web.xml****

1. <web-app>
3. <servlet>
4. <servlet-name>DemoServlet</servlet-name>
5. <servlet-**class**>DemoServlet</servlet-**class**>
7. <init-param>
8. <param-name>driver</param-name>
9. <param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
10. </init-param>
12. </servlet>
14. <servlet-mapping>
15. <servlet-name>DemoServlet</servlet-name>
16. <url-pattern>/servlet1</url-pattern>
17. </servlet-mapping>
19. </web-app>

b) Reading the initializing parameters using servletcontext object?

****DemoServlet.java****

1. **import** java.io.\*;
2. **import** javax.servlet.\*;
3. **import** javax.servlet.http.\*;

6. **public** **class** DemoServlet **extends** HttpServlet{
7. **public** **void** doGet(HttpServletRequest req,HttpServletResponse res)
8. **throws** ServletException,IOException
9. {
10. res.setContentType("text/html");
11. PrintWriter pw=res.getWriter();
13. //creating ServletContext object
14. ServletContext context=getServletContext();
16. //Getting the value of the initialization parameter and printing it
17. String driverName=context.getInitParameter("dname");
18. pw.println("driver name is="+driverName);
20. pw.close();
22. }}

****web.xml****

1. <web-app>
3. <servlet>
4. <servlet-name>sonoojaiswal</servlet-name>
5. <servlet-**class**>DemoServlet</servlet-**class**>
6. </servlet>
8. <context-param>
9. <param-name>dname</param-name>
10. <param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
11. </context-param>
13. <servlet-mapping>
14. <servlet-name>sonoojaiswal</servlet-name>
15. <url-pattern>/context</url-pattern>
16. </servlet-mapping>
18. </web-app>

**7.Write a JSP program to demonstrate comment, script, declaration & expression tags.**

<html>

<head> <title>My First JSP Page</title> </head>

<%! int count = 0; %>

<body> <%-- Code to show page count --%> Page Count is

<%= ++count %>

<% out.println(count); %>

</body>

</html>

1. **Write a JSP program to create a cookies and display it?**

**Form.html**

<html>

<body>

<form action = "Main.jsp" method = "GET"> First Name:

<input type = "text" name = "first\_name"> <br />

Last Name: <input type = "text" name = "last\_name" />

<input type = "submit" value = "Submit" />

</form>

</body>

</html>

**Main.jsp**

<% // Create cookies for first and last names.

Cookie firstName = new Cookie("first\_name", request.getParameter("first\_name"));

Cookie lastName = new Cookie("last\_name", request.getParameter("last\_name"));

// Set expiry date after 24 Hrs for both the cookies.

firstName.setMaxAge(60\*60\*24);

lastName.setMaxAge(60\*60\*24);

// Add both the cookies in the response header.

response.addCookie( firstName );

response.addCookie( lastName ); %>

<html>

<head> <title>Setting Cookies</title> </head>

<body> <center> <h1>Setting Cookies</h1> </center>

<ul>

<li><p><b>First Name:</b> <%= request.getParameter("first\_name")%> </p></li>

<li><p><b>Last Name:</b> <%= request.getParameter("last\_name")%> </p></li>

</ul>

</body>

</html>

**9. Write *JavaScript* to validate with inner text the following fields of the**

**above  registration page.**

* **Name (Name should contains alphabets and the length should not be less than 6 characters).**
* **Password (Password should not be less than 6 characters length).**
* **E-mail id (should not contain any invalid and must follow the standard pattern**

**([name@domain.com](mailto:name@domain.com" \t "_blank))**

* **Phone number (Phone number should contain 10 digits only).**

**Form Validation**

<html>

<head>

 <title>Registration</title>

<script>

function msg()

{  uname.innerText= "enter the username";   }

function uvalid()

{

var v1=new RegExp("^[\\w]{6,}$");

var in1=document.f.login.value;

var elements="";

if(!(v1.test(in1)))

{   uname.innerText="username should contain 6 chars";  }

else          { uname.innerText=""; }

pass.innerText="enter the password";

}

function pvalid()

{

var v2=new RegExp("^[\\w]{6,}");

var in2=document.f.password.value;

if(!(v2.test(in2)))

  pass.innerText="password should conatin atleast 6chars";

else

pass.innerText="";

emai.innerText="enter the email";

}

function evalid()

{

 var v3=new RegExp("^[\\w]+@[\\w]+.com$");

 var in3=document.f.email.value;

if(!(v3.test(in3)))

emai.innerText="email should be in the form name@domain.com";

else

emai.innerText= "";

ph.innerText="enter the phonenumber";

}

function phvalid()

{

var v4=new RegExp("^[\\d]{10}$");

var in4=document.f.phonenum.value;

if(!(v4.test(in4)))

  ph.innerText="phone number should contain 10 digits";

else

  ph.innerText=" ";

}

</script>

</head>

**Form.html**

<body> <center>

<form name="f">

<table align="center">

<caption align="left"> REGISTRATION <caption>

<tr>

<td>USERNAME :</td>

<td><input type="text" name="login" onfocus="uvalid()"></td>

<td><p id="uname"> <p></td>

</tr> <tr>

<td>PASSWORD:</td>

<td><input type="password" name="password" onfocus="pvalid()"></td>

<td><p id="pass"> </p></td>

</tr> <tr>

<td>E-mail id:</td>

<td><input type="text" name="email" onfocus="evalid()"></td>

<td><p id="emai"></p></td>

</tr> <tr>

<td>Phone Number:</td>

<td><input type="text" name="phonenum" onfocus="phvalid()" ></td>

<td><p id="ph"> </p></td>

</tr> <tr>

<td><input type="button"   value="submit"></td>

<td><input type="reset" value="reset"></td>

</tr> </table>

</form> </body> </html>

**10.Write a javascript program to demonstrate the any three events?**

<html>

<head> Javascript Events</head>

<body>

<h1 onmouseover="style.color='red'" onmouseout="style.color='black'">Mouse over this text</h1>

<h2> Enter something here</h2>

<input type="text" id="input1" onfocus="focusevent()"/>

<script>

function focusevent()

{

document.getElementById("input1").style.background=" aqua";

}

</script>

</body>

</html>