**1**.**write a html program to demonstrate basic tags Img , l inks ,tables, frames, ordered and un ordered lists**

<!DOCTYPE html>

<html>

<head>

<title>Prog 1</title>

<style>

table{

background-color: wheat;

border: 1px solid black;

border-collapse: collapse;

}

td,th{

padding: 5px;

border: 1px solid black;

}

</style>

</head>

<body>

<iframe name="frame1" height="400" width="300">

</iframe>

<img src="lav.jpg" height="400" width="600" alt="Smiley face" />

<ul>

<li><a href="#" >Home</a></li>

<li><a href="#">Galary</a></li>

<li><a href="#">Contact</a></li>

<li><a href="lav.jpg" target="frame1">Show image</a></li>

</ul>

<ol>

<li>Java</li>

<li>C</li>

<li>Cpp</li>

<li>Python</li>

</ol>

<table>

<tr>

<th>Name</th>

<th>Eame</th>

<th>Mobile</th>

</tr>

<tr>

<td>Sujith</td>

<td>sujithmsjs@gmail.com</td>

<td>8008188022</td>

</tr>

<tr>

<td>Nani</td>

<td>nani@gmail.com</td>

<td>9999999999</td>

</tr>

</table>

</body>

</html>

**2. write a java script to display input from all form fields like text boxes , check boxes, radio buttons  and select items. Output should be displayed in the same page using inner HTML**

<!DOCTYPE html>

<html>

<script>

function getd()

{

var name = document.getElementById("name").value;

var gen = document.getElementsByName("gender");

var skills = document.getElementsByName("skills");

var branch = document.getElementById("branch").selectedIndex;

var opts = document.getElementsByTagName("option")[branch].value;

var i, k, m = [];

for (i = 0; i < gen.length; i++)

{

if (gen[i].checked)

{

k = gen[i].value;

break;

}

}

for (i = 0; i < skills.length; i++)

{

if (skills[i].checked)

{

m.push(skills[i].value);

}

}

var p1 = "Name :"+name;

var p2 = "Gender :" + k;

var p3 =" Skills : "+m;

var p4 ="Branch : " + opts;

document.getElementById("p1").innerHTML = p1;

document.getElementById("p2").innerHTML = p2;

document.getElementById("p3").innerHTML = p3;

document.getElementById("p4").innerHTML = p4;

}

</script>

<body>

<form>

<pre>

Username :<input type="text" id="name" />

<input type="radio" name="gender" value="male"> male

<input type="radio" name="gender" value="female"> female

<input type="checkbox" name="skills" value="c">c

<input type="checkbox" name="skills" value="c++">c++

<br>

select Brac :

<select id="branch">

<option value="cse">CSE</option>

<option value="eee">EEE</option>

<option value="ece">ECE</option>

</select>

<input type="button" value="Get" onclick="getd()" />

</pre>

</form>

<h4>Out put</h4>

<p id="p1"></p>

<p id="p2"></p>

<p id="p3"></p>

<p id="p4"></p>

</body>

</html>

**3. Write a java script to validate user input using regular expression [ validate email and password fields ]**

<!DOCTYPE html>

<html>

<head>

<script>

function checkEmail() {

var x = document.getElementById("email").value;

var y = /^[a-z]{1,20}\@[a-z]{2,10}\.[a-z]{3}$/;

if (x.match(y)) {

document.getElementById("p1").style.color = "green";

document.getElementById("p1").innerHTML = "Validate";

}

else {

document.getElementById("p1").style.color = "red";

document.getElementById("p1").innerHTML = "Invalid email";

}

}

function checkpass() {

var x = document.getElementById("pass").value;

var y = /^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z])\w{6,}$/;

if (x.match(y)) {

document.getElementById("p2").style.color = "green";

document.getElementById("p2").innerHTML = "Validate";

}

else {

document.getElementById("p2").style.color = "red";

document.getElementById("p2").innerHTML =

"Minumin 6 chars, atleast 1lower, 1upper and 1digit";

}

}

</script>

</head>

<body>

<h3>EMAIL VALIDATION </h3>

ENTER EMAIL :

<input type="text" onkeyup="checkEmail()" id="email">

<p id="p1"> </p>

<h3>PASS WORD VALIDATION </h3>

PASSWORD :

<input type="password" onkeyup="checkpass()" id="pass">

<p id="p2"> </p>

</body>

</html>

**4. Develop a simple calculator using java script which performs basic arithmetic operations**

<html>

<head>

<title>Calculator</title>

</head>

<body>

<form name="cals">

<h2> CALCULATOR </h2>

<input type="text" name="scr">

<br>

<input type="button" value="0" id="b0" onclick="cals.scr.value += '0'">

<input type="button" value="1" id="b1" onclick="cals.scr.value += '1'">

<input type="button" value="2" id="b2" onclick="cals.scr.value += '2'">

<input type="button" value="3" id="b3" onclick="cals.scr.value += '3'">

<input type="button" value="4" id="b4" onclick="cals.scr.value += '4'">

<input type="button" value="5" id="b5" onclick="cals.scr.value += '5'">

<input type="button" value="6" id="b6" onclick="cals.scr.value += '6'">

<input type="button" value="7" id="b7" onclick="cals.scr.value += '7'">

<input type="button" value="8" id="b8" onclick="cals.scr.value += '8'">

<input type="button" value="9" id="b9" onclick="cals.scr.value += '9'">

<br>

<input type="button" value="+" id="pl" onclick="cals.scr.value += '+'">

<input type="button" value="-" id="min" onclick="cals.scr.value += '-'">

<input type="button" value="/" id="div" onclick="cals.scr.value += '/'">

<input type="button" value="\*" id="mul" onclick="cals.scr.value += '\*'">

<br>

<input type="button" value="=" id="eql" onclick="cals.scr.value = eval(cals.scr.value)">

<input type="reset" value="C">

</form>

</body>

</html>

**5. Write a HTML program to demonstrate HTML events.**

<!DOCTYPE html>

<html>

<head>

<script>

function docLoad() {

alert('Doc is loaded');

}

function textFocus() {

document.getElementById("p1").innerHTML = "TextField Foused";

}

function textBlur() {

document.getElementById("p1").innerHTML = "TextField is Blur";

}

function mouserOver() {

document.getElementById("txt1").style.color = "blue";

}

function mouserOut() {

document.getElementById("txt1").style.color = "green";

}

function mouseUp() {

document.getElementById("txt2").style.color = "black";

}

function mouseDown() {

document.getElementById("txt2").style.color = "red";

}

function keyUp() {

document.getElementById("p2").innerHTML = "Key up";

}

function keyDown() {

document.getElementById("p2").innerHTML = "Key Down";

}

function keyPress() {

document.getElementById("p2").innerHTML = "Key Pressed";

}

function btnClick() {

alert('Button Clicked');

}

function btnDbClick() {

alert('Button Double Clicked');

}

</script>

</head>

<body onload="docLoad()">

<input type="text" onfocus="textFocus()" onblur="textBlur()" />

<p id="p1"></p>

<input type="text" onkeyup="keyUp()" onkeydown="keyDown()" onkeypress="keyPress()" />

<p id="p2"></p>

<button onclick="btnClick()">Click me</button>

<button ondblclick="btnDbClick()">Double Click me</button>

<h1 id="txt1" onmouseover="mouserOver()" onmouseout="mouserOut()">Move Mouse Over me</h1>

<h1 id="txt2" onmouseup="mouseUp()" onmousedown="mouseDown()">Click Here</h1>

</body>

</html>

**6.Create a web page to print the following table:**

**List of Course-wise Subjects**



<html>

<head>

<style type="text/css">

table{

border: 3px solid black;

background-color: #B0E0E6 ;

}

td{

border-left: 1px solid black;

border-top: 1px solid black;

border-right: 1px solid gray;

text-align: center;

vertical-align: top;

padding: 5px;

}

.no\_bdr{

border-top: 0px;

border-bottom: 0px;

border-left-color: blue;

}

.no\_top\_bdr{

border-top: 0px;

}

.bdr\_black{

border-bottom: 3px solid blue;

}

</style>

</head>

<body>

<table summary="" >

<tr>

<td rowspan="2" class="no\_bdr">Sr No.</td>

<td rowspan="2" class="no\_bdr">Course</td>

<td rowspan="2" class="no\_bdr">Subject</td>

<td colspan="2">Marks</td>

<td colspan="2">Category</td>

<td rowspan="2" class="no\_bdr">Practical/Theory</td>

</tr>

<tr>

<td>Internal</td>

<td>External</td>

<td>Internal</td>

<td>External</td>

</tr>

<tr>

<td rowspan="4" class="no\_bdr">1</td>

<td rowspan="4" class="no\_bdr">MBA</td>

<td class="no\_top\_bdr">Management Accounting</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td class="no\_top\_bdr" >Theory</td>

</tr>

<tr class="bdr\_black">

<td>Information Technology</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>T and P</td>

</tr>

<tr>

<td>Basics Of Marketing</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>Theory</td>

</tr>

<tr>

<td>E-commerce</td>

<td>50</td>

<td>-</td>

<td>&#10003</td>

<td>-</td>

<td>Theory</td>

</tr>

<tr>

<td rowspan="6" class="no\_bdr">2</td>

<td rowspan="6" class="no\_bdr">MCM</td>

<td>Visual Basic</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>T and </td>

</tr>

<tr class="bdr\_black">

<td>Internet Technology</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>T and P</td>

</tr>

<tr>

<td>Network Technology</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>Theory</td>

</tr>

<tr>

<td>VB.Net</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>T and P</td>

</tr>

<tr>

<td>Linux</td>

<td>30</td>

<td>70</td>

<td>-</td>

<td>&#10003</td>

<td>T and P</td>

</tr>

<tr>

<td>ISA</td>

<td>50</td>

<td>-</td>

<td>&#10003</td>

<td>-</td>

<td>Theory</td>

</tr>

</table>

</body>

</html>

**7.****Create a web page having frames as follows:**



The frame which includes Objective, Personal Information ect. are the hyperlinks.

Display the relevant information in the next frame on selecting the link. The

colour scheme of hyper links should be as follows:

default – green

active – red

visited – blue

The information should be well formatted. Follow the instructions mentioned in

the above format.

**frames.html**

<!DOCTYPE html>

<html>

<head>

<title>HTML Frames</title>

</head>

<frameset rows="15%,75%,10%">

<frame name="top" src="herder.html" />

<frame name="main" src="center.html" />

<frame name="bottom" src="footer.html" />

</frameset>

</html>

**center.html**

<!DOCTYPE html>

<html>

<head>

<title>HTML Frames</title>

</head>

<frameset cols="25%,65%,10%">

<frame name="left" src="nav.html" />

<frame name="center" src="" />

<frame name="right" src="rightside.html" />

<noframes>

<body>

Your browser does not support frames.

</body>

</noframes>

</frameset>

</html>

**nav.html**

<html>

<head>

<style type="text/css">

li{

list-style-type: none;

padding-top: 10px;

}

a{

text-decoration: none;

color: green;

font-family: arial;

}

a:hover{

text-decoration: underline;

}

a:active{

color: red;

}

a:visited{

color: blue;

}

</style>

</head>

<body>

<ul>

<li><a href="Objective.html" target="center">Objective</a></li>

<li><a href="Personal.html" target="center">Personal Info</a></li>

<li><a href="Family.html" target="center">Family Info</a></li>

<li><a href="Edu.html" target="center">Educational Info</a></li>

<li><a href="Experience.html" target="center">Experience</a></li>

<li><a href="Achievements.html" target="center">Achievements</a></li>

<li><a href="Others.html" target="center">Others</a></li>

</ul>

</body>

</html>

**header.html**

<html>

<head>

<style type="text/css">

.header{

width: 100%;

text-align: center;

}

h1,h4{

padding: 0px;

margin: 0px;

}

</style>

</head>

<body>

<div class="header">

<h1>Sujith</h1>

<h4 style="color:green">Punch line here</h4>

</div>

</body>

</html>

**footer.html**

<html>

<head>

<style type="text/css">

p{

text-align: center;

}

</style>

</head>

<body>

<p> &copy; Copy rights received</p>

</body>

</html>

**rightside.html**

<html>

<head>

<style type="text/css">

</style>

</head>

<body>

<p> Releated Context</p>

</body>

</html>

**Objective.html**

<html>

<head>

<style type="text/css">

</style>

</head>

<body>

<h3>Career Objective</h3>

<p>

To work in an organisation where I can use my skills in the best possible way for achieving

the company goals and personal growth.

</p>

</body>

</html>

**8.Create following table formats**



**TABLE 1:-**

<html>

<head>

<style type="text/css">

table{

border-collapse: collapse;

}

td{

border: 1px solid black;

width: 150px;

height: 50px;

}

td:first-child{

border-left: 4px solid black;

}

</style>

</head>

<body>

<table>

<tr>

<td colspan="3"></td>

</tr>

<tr>

<td></td>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

<td></td>

</tr>

</table>

</body>

</html>

**TABLE: 2**

<html>

<head>

<style type="text/css">

table{

border-collapse: collapse;

}

td{

border: 1px solid black;

width: 150px;

height: 50px;

}

.bdr{

border-left: 4px solid black;

}

td:last-child{

border-left: 4px solid black;

}

</style>

</head>

<body>

<table>

<tr>

<td rowspan="4" class="bdr"></td>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

</table>

</body>

</html>

**TABLE 3:-**

<html>

<head>

<style type="text/css">

table{

border-collapse: collapse;

}

td{

border: 4px solid black;

width: 150px;

height: 50px;

}

</style>

</head>

<body>

<table>

<tr>

<td colspan="2"></td>

<td colspan="3"></td>

</tr>

<tr>

<td></td>

<td></td>

<td></td>

<td></td>

</tr>

<tr>

<td colspan="2" rowspan="2"></td>

<td colspan="2"></td>

</tr>

<tr>

<td colspan="2"></td>

</tr>

</table>

</body>

</html>

**TABLE 4:-**

<html>

<head>

<style type="text/css">

table{

border-collapse: collapse;

}

td{

border: 1px solid black;

border-left: 3px solid black;

width: 150px;

height: 50px;

}

</style>

</head>

<body>

<table summary="" >

<tr>

<td></td>

<td></td>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td colspan="2" rowspan="2"></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

<td></td>

<td></td>

</tr>

</table>

</body>

</html>

**TABLE 5**

<html>

<head>

<style type="text/css">

table{

border-collapse: collapse;

}

td{

border: 1px solid black;

border-left: 3px solid black;

width: 150px;

height: 50px;

}

</style>

</head>

<body>

<table summary="" >

<tr>

<td colspan="2"></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

<tr>

<td></td>

<td></td>

</tr>

<tr>

<td colspan="2"></td>

</tr>

</table>

</body>

</html>

**9.Write a java script program to convert distance in kilometers, miles to meters or inches**

<html>

<body>

kilometers: <input type="text" id="myText" value="">

<button onclick="myFunction()">=</button>

meters: <input type="text" id="myText1" value="">

</br>

miles: <input type="text" id="myText2" value="">

<button onclick="myFunction1()">=</button>

inches: <input type="text" id="myText3" value="">

<script>

function myFunction() {

var first=document.getElementById('myText').value;

document.getElementById("myText1").value = first\*(1000);

}

function myFunction1() {

var first=document.getElementById('myText2').value;

document.getElementById("myText3").value = first\*(63360);

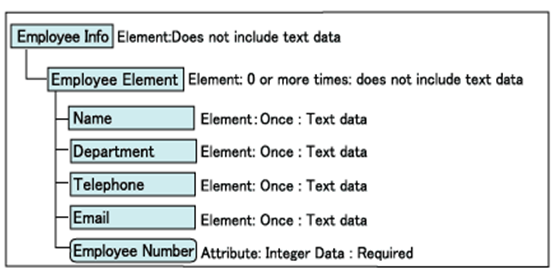
}

</script>

</body>

</html>

**10.Write the DTD and XML Schema for the following:**



**emp.dtd**

<!DOCTYPE empinfo [

<!ELEMENT emp (name,dept,tel,email,num)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT dept (#PCDATA)>

<!ELEMENT tel (#PCDATA)>

<!ELEMENT email (#PCDATA)>

<!ELEMENT num (#PCDATA)>

]>

**emp.xml**

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

<!DOCTYPE college SYSTEM "emp.dtd">

<empinfo>

<emp>

<name>Sujith</name>

<dept>CSE</dept>

<tel>8008188022</tel>

<email>sujithmsjs@gmail.com</email>

<num>336</num>

</emp>

<emp>

<name>Bharath</name>

<dept>CSE</dept>

<tel>4451254125</tel>

<email>bharath@gmail.com</email>

<num>327</num>

</emp>

</empinfo>

**11.  Write a Servlet program to print user input provided from HTML form fields like text boxes , check boxes, radio buttons  and select items**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Print Input</title>

</head>

<body>

<form action="./ShowServlet">

<pre>

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

Gender:<br />

<input type="radio" name="gender" value="male" checked/>Male

<input type="radio" name="gender" value="male" />Female

Languages:

<input type="checkbox" name="lang" value="java" />Java

<input type="checkbox" name="lang" value="python" />Python

<input type="checkbox" name="lang" value="c" />C

<input type="checkbox" name="lang" value="cpp" />Cpp

Select college:

<select name="college">

<option value="cbit">CBIT</option>

<option value="mgit">MGIT</option>

<option value="vasavi">VASAVI</option>

</select>

<input type="submit" value="Get Values" />

</pre>

</form>

</body>

</html>

**ShowServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class ShowServlet extends HttpServlet {

public void doGet(HttpServletRequest req, HttpServletResponse res)

throws ServletException, IOException {

String resStr = "";

res.setContentType("text/html");

String name = req.getParameter("name");

String gender = req.getParameter("gender");

String college = req.getParameter("college");

String langs[] = req.getParameterValues("lang");

PrintWriter out = res.getWriter();

out.println("<p>Name : "+ name +" </p>");

out.println("<p>Gender : "+ gender +" </p>");

out.println("<p>College : "+ college +" </p>");

out.println("<p>Languages :</p>");

for(int i=0;i<langs.length;i++){

out.println("<p>"+ langs[i] +"</p>");

}

out.close();

}

}

**web.xml**

<web-app>

<servlet>

<servlet-name>ShowServlet</servlet-name>

<servlet-class>ShowServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>ShowServlet</servlet-name>

<url-pattern>/ShowServlet</url-pattern>

</servlet-mapping>

</web-app>

**12. Write a servlet program to demonstrate Cookies**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home Page</title>

</head>

<body>

<form action="./FirstServlet" method="post">

Name:<input type="text" name="userName"/><br/>

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

</form>

</body>

</html>

**FirstServlet.java**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class FirstServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String username = request.getParameter("userName");

Cookie c = new Cookie("userName",username);

response.addCookie(c);

out.print("<form action='./SecondServlet' method='post'>");

out.print("<input type='submit' value='go'>");

out.print("</form>");

out.close();

}catch(Exception e){

e.printStackTrace

}

}

}

**SecondServlet.java**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class SecondServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response){

try {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

Cookie ck[]=request.getCookies();

out.print("Hello "+ck[0].getValue());

out.close();

} catch (Exception e) {

System.out.println(e.getMessage());

}

}

}

**web.xml**

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

<web-app>

<servlet>

<servlet-name>FirstServlet</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>FirstServlet</servlet-name>

<url-pattern>/FirstServlet</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>SecondServlet</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>SecondServlet</servlet-name>

<url-pattern>/SecondServlet</url-pattern>

</servlet-mapping>

</web-app>

**13. Write a servlet program to demonstrate Hidden form fields**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home Page</title>

</head>

<body>

<form action="./FirstServlet" method="post">

Name:<input type="text" name="userName"/><br/>

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

</form>

</body>

</html>

**FirstServlet.java**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class FirstServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

out.println("Welcome " + userName);

out.println("<form action='./SecondServlet' method='post'>");

out.println("<input type='hidden' name='userName' value='" + userName + "' />");

out.println("<input type='submit' value='Go' />");

out.println("</form>");

out.close();

} catch (Exception e) {

}

}

}

**SecondServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class SecondServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

out.println("Hellow " + userName);

} catch (Exception e) {

System.out.println(e.getMessage());

}

}

}

**web.xml**

Note:- Same code as 7th program web.xml

**14. Write a servlet program to demonstrate URL rewriting**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home page</title>

</head>

<body>

<form action="./FirstServlet">

Name:<input type="text" name="userName"/><br/>

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

</form>

</body>

</html>

**FirstServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class FirstServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

out.println("Welcome " + userName);

out.println("<br />");

out.println("<a href='./SecondServlet?userName=" + userName + "'>Visit</a>");

out.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

**SecondServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class SecondServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

out.println("<h1> Hello " + userName + " </h1>");

} catch (Exception e) {

System.out.println(e.getMessage());

}

}

}

**web.xml**

Note:- Same code as 7th program web.xml

**15. Write a servlet program to demonstrate HTTP Session**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home page</title>

</head>

<body>

<form action="./FirstServlet">

Name:<input type="text" name="userName"/><br/>

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

</form>

</body>

</html>

**FirstServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class FirstServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

HttpSession hs = request.getSession();

hs.setAttribute("userName", userName);

out.println("Welcome " + userName);

out.println("<a href='./SecondServlet'>Visit</a>");

out.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

**SecondServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class SecondServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession hs = request.getSession(false);

String userName = (String)hs.getAttribute("userName");

out.println("<h1> Hello "+userName+" </h1>");

out.println("<a href='./Logout'>Logout</a>");

} catch (Exception e) {

System.out.println(e.getMessage());

}

}

}

**Logout.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class Logout extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession hs = request.getSession(false);

hs.invalidate();

out.println("<p>Logout Sucessfully</p><br />");

out.println("<a href='index.html'>Home</a>");

out.close();

} catch (Exception e) {

System.out.println(e);

}

}

}

**web.xml**

<web-app>

<servlet>

<servlet-name>FirstServlet</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet>

<servlet-name>Logout</servlet-name>

<servlet-class>Logout</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>FirstServlet</servlet-name>

<url-pattern>/FirstServlet</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>SecondServlet</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>SecondServlet</servlet-name>

<url-pattern>/SecondServlet</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>Logout</servlet-name>

<url-pattern>/Logout</url-pattern>

</servlet-mapping>

</web-app>

**16. Write a servlet program to demonstrate Servlet Context using getAtt and setAtt methods**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home page</title>

</head>

<body>

<form action="./SetAttr">

Name:<input type="text" name="userName"/><br/>

Mobile:<input type="text" name="mobile"/><br/>

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

</form>

</body>

</html>

**SetArrt.java**

import java.io.PrintWriter;

import javax.servlet.ServletContext;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class SetAttr extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String userName = request.getParameter("userName");

String mobile = request.getParameter("mobile");

ServletContext sc = request.getServletContext();

sc.setAttribute("name",userName);

sc.setAttribute("mobile",mobile);

out.println("Welcome "+userName);

out.println("<a href='./GetAttr'>Go</a>");

out.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

**GetAttr.java**

import java.io.PrintWriter;

import javax.servlet.ServletContext;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class GetAttr extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

ServletContext sc = request.getServletContext();

String name = (String) sc.getAttribute("name");

String mobile = (String) sc.getAttribute("mobile");

out.println("<p>Name :"+name+"</p>");

out.println("<p>Mobile :"+mobile+"</p>");

out.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

**web.xml**

<web-app>

<servlet>

<servlet-name>SetAttr</servlet-name>

<servlet-class>SetAttr</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>SetAttr</servlet-name>

<url-pattern>/SetAttr</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>GetAttr</servlet-name>

<servlet-class>GetAttr</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>GetAttr</servlet-name>

<url-pattern>/GetAttr</url-pattern>

</servlet-mapping>

</web-app>

**17. Demonstrate servlet collaboration using Request Dispatcher through a program**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Login</title>

</head>

<body>

<form action="./LoginServlet">

Username<input type="text" name="user" /><br />

Password<input type="password" name="pass" /><br />

<input type="submit" value="Login" /><br />

<p>Hint: password:- batch3rocks </p>

</form>

</body>

</html>

**LoginServlet.java**

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class LoginServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String pass = request.getParameter("pass");

if(pass.equalsIgnoreCase("batch3rocks")){

RequestDispatcher rd = request.getRequestDispatcher("/ProfileServlet");

rd.forward(request, response);

}else{

RequestDispatcher rd = request.getRequestDispatcher("index2.html");

rd.include(request, response);

out.println("<p>Password wrong..! Try again");

}

out.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

**ProfileServlet.java**

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class ProfileServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) {

try {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("Your are successfully logged in");

} catch (Exception e) {

e.printStackTrace();

}

}

}

**web.xml**

<web-app>

<servlet>

<servlet-name>LoginServlet</servlet-name>

<servlet-class>LoginServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>LoginServlet</servlet-name>

<url-pattern>/LoginServlet</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>ProfileServlet</servlet-name>

<servlet-class>ProfileServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>ProfileServlet</servlet-name>

<url-pattern>/ProfileServlet</url-pattern>

</servlet-mapping>

</web-app>

**18. Demonstrate servlet filters through program.**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Home page</title>

</head>

<body>

<a href="./DisplayServlet"> <p> click here to see count </p>

</a>

</body>

</html>

**DisplayServle.java**

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.io.\*;

public class DisplayServlet extends HttpServlet {

public void doGet(HttpServletRequest req, HttpServletResponse res) throws IOException, ServletException {

ServletContext context = getServletContext();

Integer count = (Integer) context.getAttribute("count");

res.setContentType("text/html");

PrintWriter out = res.getWriter();

if (count != null) {

out.println(" the current count is " + count.intValue());

} else {

out.println("count not available ");

}

out.println("<a href='index.html'>Back</a>");

out.close();

}

}

**CountFilter.java**

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

public class CountFilter implements Filter {

private FilterConfig config;

public void doFilter(ServletRequest req, ServletResponse res, FilterChain chain) {

try {

ServletContext context = config.getServletContext();

Integer count = (Integer) context.getAttribute("count");

if (count == null) {

count = new Integer(0);

}

count = new Integer(count.intValue() + 1);

context.setAttribute("count", count);

chain.doFilter(req, res);

} catch (Exception e) {

System.out.println(e);

}

}

public void init(FilterConfig filterConfig) throws ServletException {

config = filterConfig;

}

public void destroy() {

}

}

**web.xml**

<web-app>

<filter>

<filter-name>CountFilter</filter-name>

<filter-class>CountFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>CountFilter</filter-name>

<url-pattern>/\*</url-pattern>

</filter-mapping>

<servlet>

<servlet-name>DisplayServlet</servlet-name>

<servlet-class>DisplayServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>DisplayServlet</servlet-name>

<url-pattern>/DisplayServlet</url-pattern>

</servlet-mapping>

</web-app>

**19.Write a servlet program to demonstrate the post parameters**

**index.html**

<html>

<head>

<script> Home Page </script>

</head>

<body>

<form method="post" action="./PostPara">

<pre>

Name:<input type="text" name="name" />

Email:<input type="text" name="email" />

Mobile:<input type="text" name="mobile" />

<input type=submit value="Submit">

<pre>

</form>

</body>

</html>

**PostPara.java**

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class PostPara extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

PrintWriter out = response.getWriter();

Enumeration e = request.getParameterNames();

while (e.hasMoreElements()) {

String pname = (String) e.nextElement();

out.print(pname + " = ");

String pvalue = request.getParameter(pname);

out.println(pvalue);

}

out.close();

}

}

**web.xml**

<web-app>

<servlet>

<servlet-name>PostPara</servlet-name>

<servlet-class>PostPara</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>PostPara</servlet-name>

<url-pattern>/PostPara</url-pattern>

</servlet-mapping>

</web-app>