**Practical Test**

1. **Write a .css file to create a style sheet that defines the font , color, and text for the text to be captured by the user through form and display the text on the page.**

***Code:-***

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

**<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd" id="WebApp\_ID" version="3.1">**

**<display-name>Stuinfo</display-name>**

**<welcome-file-list>**

**<welcome-file>index.html</welcome-file>**

**<welcome-file>index.htm</welcome-file>**

**<welcome-file>index.jsp</welcome-file>**

**<welcome-file>default.html</welcome-file>**

**<welcome-file>default.htm</welcome-file>**

**<welcome-file>default.jsp</welcome-file>**

**</welcome-file-list>**

**<servlet>**

**<servlet-name>first</servlet-name>**

**<jsp-file>/WebContent/form.jsp</jsp-file>**

**</servlet>**

**<servlet-mapping>**

**<servlet-name>first</servlet-name>**

**<url-pattern>/info</url-pattern>**

**</servlet-mapping>**

**</web-app>**

**<!DOCTYPE html>**

**<html>**

**<head >**

**<title > Information</title>**

**<h1 style="text-align:center;">To Display the user Details</h1>**

**<style>**

**.content {font-family:"Times New Roman",Times,serif;**

**font-size:100%;**

**font-weight:bold;**

**color:purple;**

**}**

**#email{ font-weight:italic**

**}**

**.input {font-family:"Times New Roman",Times,serif;**

**font-size:100%;**

**font-weight:bold;**

**color:green;**

**}**

**</style>**

**</head>**

**<script type="text/javascript">**

**function printchecked()**

**{**

**var items=document.getElementsByName("hobbies[]");**

**var selectedItems="";**

**for(var i=0;i<items.length;i++)**

**{**

**if((items[i].type=='checkbox')&&(items[i].checked==true))**

**selectedItems +=items[i].value +"\n";**

**}**

**return selectedItems;**

**}**

**function elemVal(){**

**alert("Hello,I am in elemValue");**

**var myName=document.getElementById("name");**

**var myPass=document.getElementById("pass");**

**var myAdd=document.getElementById("add");**

**var myGen=document.getElementById("gen");**

**var myHob=printchecked();**

**var myMsg="Value of Name Box is: "+myName.value;**

**myMsg +="\n Password is: "+myPass.value;**

**myMsg +="\n Value of address Box is: "+myAdd.value;**

**myMsg +="\n Gender is: "+myGen.value;**

**myMsg +="\n Hobbies: "+myHob.value;**

**alert(myMsg);**

**return;**

**}**

**</script>**

**<body background="studnt.jpg" height="100%" ><center>**

**<table style="border:5px black solid; padding:10px; background-color:lightblue;">**

**<tr class="content" >**

**<td class="content" style="width: 150px;">Name </td>**

**<td class="input">**

**<input type="textbox" Name="Gauri" id="name" value="">**

**</td>**

**</tr>**

**<tr class="content" >**

**<td class="content" style="width: 150px;"> Last Name </td>**

**<td class="input">**

**<input type="textbox" Name="last" id="name" value="">**

**</td>**

**</tr>**

**<tr class="content" >**

**<td class="content" style="width: 150px;">DOB</td>**

**<td class="input">**

**<input type="date" Name="dob" id="dob" value="">**

**</td>**

**<tr class="content" >**

**<td>Address</td>**

**<td class="input">**

**<textarea rows="4" cols="50" Name="Address" id="add" value="" > </textarea>**

**</td>**

**</tr>**

**<tr class="content" >**

**<td class="content" style="width: 150px;"> User Name </td>**

**<td class="input">**

**<input type="textbox" Name="Gauri" id="name" value="">**

**</td>**

**<tr class="content" >**

**<td class="content" style="width: 150px;">Password </td>**

**<td class="input">**

**<input type="password" Password="Gauri" id="pass" value="">**

**</td>**

**</tr>**

**</tr>**

**<tr class="content">**

**<td>Gender</td>**

**<td class="input">**

**<input type="radio" Name="Gender" id="gen" value="Female" class="rad" />**

**<label> Female </label>**

**<input type="radio" Name="Gender" id="gen" value="Male" class="rad" />**

**<label > Male </label>**

**</td>**

**</tr>**

**<tr class="content" >**

**<td>Phone no.</td>**

**<td class="input">**

**<input type="number" Name="phoneNo." id="phn" value="" >**

**</td>**

**<tr class="content" >**

**<td>Pin Code</td>**

**<td class="input">**

**<input type="number" Name="Pin" id="pin" value="" >**

**</td>**

**<tr class="content">**

**<td>Hobbies</td>**

**<td class="input">**

**<label> Dance <label>**

**<input type="checkbox" Name="Dance" id="hobbies" value="hobbies">**

**<label> Singing <label>**

**<input type="checkbox" Name="Singing" id="hobbies" value="hobbies">**

**<label> Playing <label>**

**<input type="checkbox" Name="Playing" id="hobbies" value="hobbies">**

**</td>**

**</tr>**

**<tr class="content">**

**<td>Countries</td>**

**<td class="input">**

**<select Name="Country" id="country" required>**

**<option value="0"> select country </option>**

**<option> India </option>**

**<option> Malaysia </option>**

**<option> China</option>**

**</td>**

**</tr >**

**<tr class="content" id="email">**

**<td>Email</td>**

**<td class="input" id="email">**

**<input type="email" Name="email" value="">**

**</td>**

**</tr>**

**<tr class="content" id="email">**

**<td>Upload doc</td>**

**<td class="input" >**

**<input type="file" Name="file" id="file" value="">**

**</td>**

**</tr>**

**<tr class="content" >**

**<td >No. of years</td>**

**<td class="input">**

**10<input type="range" Name="Range" value="10" min="10" max="20" step'"1" class="txt"> 20**

**</td>**

**</tr>**

**<tr class="content">**

**<td >**

**<input type="submit" Name="Register" id="btnSubmit" value="Register" onclick="javascript:elemVal();">**

**</td>**

**<td>**

**<input type="reset" Name="Clear" id="btnReset" value="Clear">**

**</td>**

**</tr>**

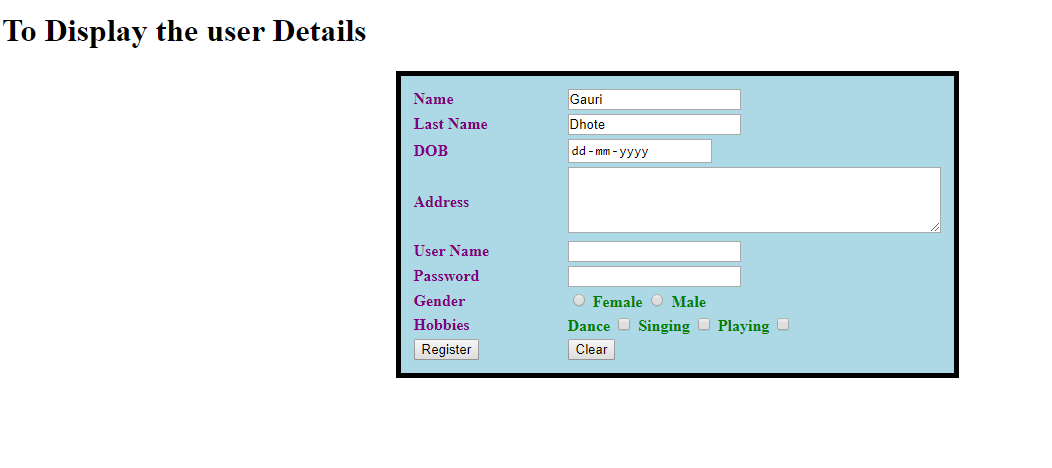
**</table>**

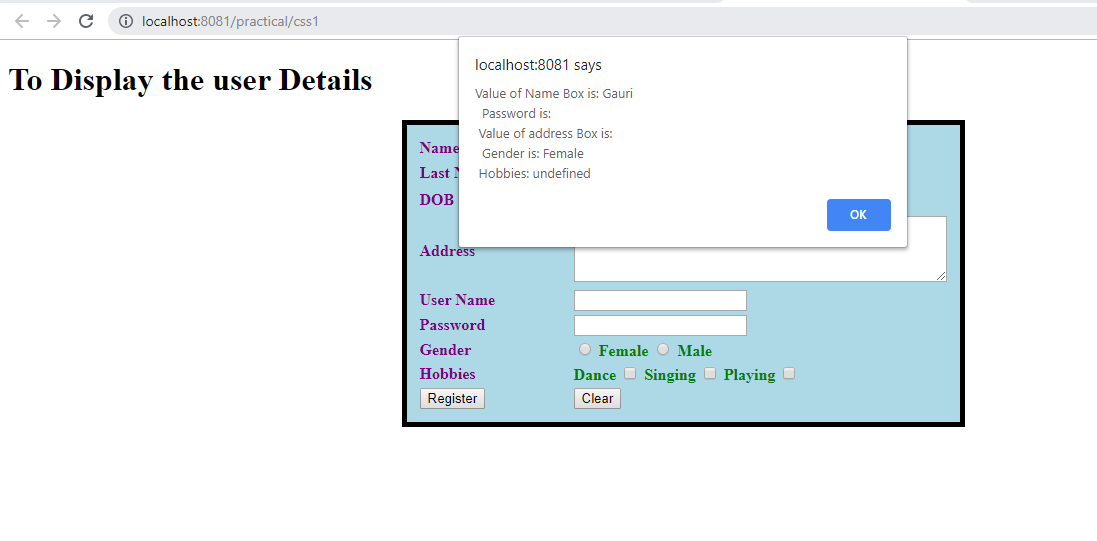
**</div>**

**</center>**

**</body>**

**</html>**





1. **Create an external javascript file to define a function that accepts two numbers from the user and display the sum.**

***Code:-***

***<!DOCTYPE html>***

***<html lang="en">***

***<head>***

***<meta charset="utf-8">***

***<meta name="viewport" content="width=device-width, initial-scale=1.0, user-scalable=yes">***

***<title>Add numbers</title>***

***</head>***

***<body>***

***<input id="x">***

***<input id="y">***

***<button id="go">+</button>***

***<div id="result"></div>***

***<script src="add\_numbers.js"></script>***

***</body>***

***</html>***

function add() {

var x = Number(document.getElementById('x').value);

var y = Number(document.getElementById('y').value);

document.getElementById('result').innerHTML = x+y;

return false;

}

***OUTPUT:-***



1. **Develop a web application through which the end user should be able to persist the below information. a) Name b) Aadhar ID c) City d) State e) Pincode f) Number of dependents g) Occupation Type (should be able to select one of four options) e) Monthly Salary(INR) No duplicates should be allowed for Aadhar ID. After registering the user should be taken to the login page, where the user has to login and view the details. Registered users should be allowed to login & view his / her details. Invalid logon attempts should be redirected to the logon page with an error message. All client & server side validations should be taken care. "**

***Code:-***

**package com.beans;**

**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;**

**@WebServlet("/SignUp")**

**public class SignUp extends HttpServlet {**

**@Override**

**protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {**

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

**String username = req.getParameter("username");**

**String password = req.getParameter("password");**

**String aadhar = req.getParameter("aadhar");**

**String city = req.getParameter("city");**

**String state = req.getParameter("state");**

**String pin = req.getParameter("pin");**

**String depend = req.getParameter("depend");**

**String occupation = req.getParameter("occupation");**

**String salary = req.getParameter("salary");**

**PrintWriter out = resp.getWriter();**

**User u = new User();**

**u.setName(name);**

**u.setUsername(username);**

**u.setPassword(password);**

**u.setCity(city);**

**u.setState(state);**

**u.setPincode(pin);**

**u.setAadhar(aadhar);**

**u.setDependents(depend);**

**u.setOccupation(occupation);**

**u.setSalary(salary);**

**int status = UserDao.signUp(u);**

**if (status == 1) {**

**out.print("SignUp Successfull");**

**req.getRequestDispatcher("login.html").include(req, resp);**

**}else {**

**out.print("Enter Unique Adhar id");**

**}**

**out.close();**

**}**

**}**

***UserLogin***

**package com.beans;**

**public class UserLogin {**

**private String username,password;**

**public String getUsername() {**

**return username;**

**}**

**public void setUsername(String username) {**

**this.username = username;**

**}**

**public String getPassword() {**

**return password;**

**}**

**public void setPassword(String password) {**

**this.password = password;**

**}**

**}**

***UserDataBean***

**package com.beans;**

**import java.sql.Connection;**

**import java.sql.DriverManager;**

**import java.sql.PreparedStatement;**

**import java.sql.ResultSet;**

**import java.sql.SQLException;**

**public class UserDao {**

**public static Connection getConnection() {**

**Connection con = null;**

**try {**

**Class.forName("com.mysql.jdbc.Driver");**

**con = DriverManager.getConnection("jdbc:mysql://localhost:3307/userdb","root","root");**

**} catch (Exception e) {**

**}**

**return con;**

**}**

**public static int signUp(User u) {**

**int status = 0;**

**Connection con=UserDao.getConnection();**

**System.out.println("5");**

**PreparedStatement ps;**

**try {**

**ps = con.prepareStatement("insert into users(name,username,password,aadhar,city,state,pincode,dependents,occupation,salary,status) values (?,?,?,?,?,?,?,?,?,?,?)");**

**ps.setString(1,u.getName());**

**ps.setString(2,u.getUsername());**

**ps.setString(3,u.getPassword());**

**ps.setString(4,u.getAadhar());**

**ps.setString(5,u.getCity());**

**ps.setString(6,u.getState());**

**ps.setString(7,u.getPincode());**

**ps.setString(8,u.getDependents());**

**ps.setString(9,u.getOccupation());**

**ps.setString(10,u.getSalary());**

**ps.setString(11,"1");**

**status=ps.executeUpdate();**

**con.close();**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return status;**

**}**

**public static int login(User u) {**

**Connection con = UserDao.getConnection();**

**try {**

**String query = "Select \* from users where username=? and password=?";**

**PreparedStatement ps = con.prepareStatement(query);**

**ps.setString(1,u.getUsername());**

**ps.setString(2,u.getPassword());**

**ResultSet rs = ps.executeQuery();**

**while(rs.next()) {**

**if (rs.getString("status").equals("1")) {**

**UserDataBean ud = new UserDataBean();**

**System.out.println(rs.getString("name")+rs.getString("username")+rs.getString("password")+rs.getString("salary"));**

**System.out.println(rs.getString("occupation")+rs.getString("aadhar")+rs.getString("city")+rs.getString("state")+rs.getString("dependents"));**

**ud.setName(rs.getString("name"));**

**ud.setUsername(rs.getString("username"));**

**ud.setPassword(rs.getString("password"));**

**ud.setSalary(rs.getString("salary"));**

**ud.setOccupation(rs.getString("occupation"));**

**ud.setAadhar(rs.getString("aadhar"));**

**ud.setCity(rs.getString("city"));**

**ud.setPincode(rs.getString("pincode"));**

**ud.setState(rs.getString("state"));**

**ud.setDependents(rs.getString("dependents"));**

**return 1;**

**}else {**

**return 0 ;**

**}**

**}**

**} catch (SQLException e) {**

**// TODO Auto-generated catch block**

**e.printStackTrace();**

**}**

**return 0;**

**}**

**}**

**----------------------------------------------------**

**package com.beans;**

**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;**

**@WebServlet("/LoginServlet")**

**public class LoginServlet extends HttpServlet{**

**@Override**

**protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {**

**String username = req.getParameter("username");**

**String password = req.getParameter("password");**

**PrintWriter out= resp.getWriter();**

**//out.print(username+ " "+ password);**

**User u = new User();**

**u.setUsername(username);**

**u.setPassword(password);**

**int status = UserDao.login(u);**

**if (status == 1) {**

**out.print("Login Successfull");**

**out.print("<h1>User Details</h1><br>");**

**UserDataBean ud = new UserDataBean();**

**out.print("Name : "+ud.getName());**

**out.print("Aadhar Id"+ud.getAadhar());**

**out.print("Username : "+ud.getUsername());**

**out.print("Password :"+ud.getPassword());**

**out.print("No. of Dependents : "+ud.getDependents());**

**out.print("Occupation : "+ud.getOccupation());**

**out.print("Pincode : "+ud.getPincode());**

**out.print("City : "+ud.getCity());**

**out.print("State : "+ud.getState());**

**out.print("Salary :"+ud.getSalary());**

**}else {**

**out.print("Wrong Username/Password");**

**}**

**out.close();**

**}**

**}**

**------------------------**

**package com.developer;**

**public class UserDataBean {**

**int id;**

**String name,username,password,aadhar,city,state,pincode,dependents,occupation,salary;**

**public int getId() {**

**return id;**

**}**

**public void setId(int id) {**

**this.id = id;**

**}**

**public String getName() {**

**return name;**

**}**

**public void setName(String name) {**

**this.name = name;**

**}**

**public String getUsername() {**

**return username;**

**}**

**public void setUsername(String username) {**

**this.username = username;**

**}**

**public String getPassword() {**

**return password;**

**}**

**public void setPassword(String password) {**

**this.password = password;**

**}**

**public String getAadhar() {**

**return aadhar;**

**}**

**public void setAadhar(String aadhar) {**

**this.aadhar = aadhar;**

**}**

**public String getCity() {**

**return city;**

**}**

**public void setCity(String city) {**

**this.city = city;**

**}**

**public String getState() {**

**return state;**

**}**

**public void setState(String state) {**

**this.state = state;**

**}**

**public String getPincode() {**

**return pincode;**

**}**

**public void setPincode(String pincode) {**

**this.pincode = pincode;**

**}**

**public String getDependents() {**

**return dependents;**

**}**

**public void setDependents(String dependents) {**

**this.dependents = dependents;**

**}**

**public String getOccupation() {**

**return occupation;**

**}**

**public void setOccupation(String occupation) {**

**this.occupation = occupation;**

**}**

**public String getSalary() {**

**return salary;**

**}**

**public void setSalary(String salary) {**

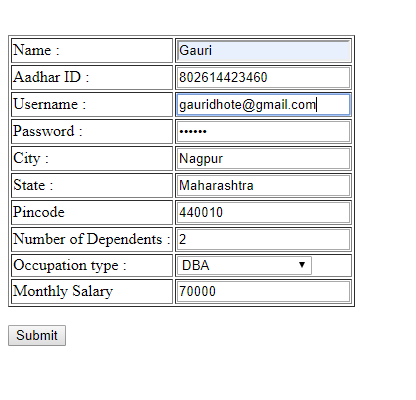
**this.salary = salary;**

**}**

**}**

***OUTPUT:-***





1. **"Write a simple program to demonstrate the usage of Java mails. Input the following details and trigger mail. a) Mail address (validate mail format) b) Subject c) Content"**

***Code:-***

**JavaUtilMail**

**import java.sql.PreparedStatement;**

**import java.util.\*;**

**import javax.mail.\*;**

**import javax.mail.internet.\*;**

**import javax.activation.\*;**

**public class JavaUtilMail {**

**public static void sendMail(String recepient) throws Exception{**

**System.out.println("Preparing to send email");**

**Properties properties = new Properties();**

**properties.put("mail.smtp.host","smtp.gmail.com");**

**properties.put("mail.smtp.port", "587");**

**properties.put("mail.smtp.auth", "true");**

**properties.put("mail.smtp.starttls.enable", true);**

**String myAccountEmail = "dhotegauri2728@gmail.com";**

**String password = "gdhote";**

**Session session = Session.getInstance(properties,new Authenticator() {**

**@Override**

**protected PasswordAuthentication getPasswordAuthentication()**

**{**

**return new PasswordAuthentication(myAccountEmail, password);**

**}**

**});**

**Message message = prepareMessage(session, myAccountEmail, recepient);**

**Transport.send(message);**

**System.out.println("Succesful");**

**}**

**private static Message prepareMessage(Session session,String myAccountEmail,String recepient){**

**try {**

**Message message = new MimeMessage(session);**

**message.setFrom(new InternetAddress(myAccountEmail));**

**message.setRecipient(Message.RecipientType.TO, new InternetAddress(recepient));**

**message.setSubject("Email using java");**

**message.setText("Heloo Everyone");**

**return message;**

**} catch (Exception e) {**

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

**}**

**return null;**

**}**

**}**

**SendEmail**

**import java.util.\*;**

**import javax.mail.\*;**

**import javax.mail.internet.\*;**

**import javax.activation.\*;**

**public class SendEmail {**

**public static void main(String [] args) throws Exception{**

**JavaUtilMail.sendMail("chanakshiwadtkar@gmail.com");**

**}**

**}**

1. **Write a simple program to demonstrate the usage of sending a text message from one system and receive the message in another system.**

***Code:-***

**GreetingServer**

**import java.net.\*;**

**import java.io.\*;**

**import javax.imageio.IIOException;**

**public class GreetingServer extends Thread {**

**private ServerSocket serverSocket;**

**public GreetingServer(int port) throws IOException{**

**serverSocket=new ServerSocket(port);**

**serverSocket.setSoTimeout(10000);**

**}**

**public void run() {**

**while (true) {**

**try {**

**System.out.println("Waiting for client on port "+serverSocket.getLocalPort()+"....");**

**Socket server=serverSocket.accept();**

**System.out.println("Just Connected To "+server.getRemoteSocketAddress());**

**DataInputStream in=new DataInputStream(server.getInputStream());**

**System.out.println(in.readUTF());**

**DataOutputStream out=new DataOutputStream(server.getOutputStream());**

**out.writeUTF("Thank you for connecting to "+server.getLocalSocketAddress()+"\n Helooo");**

**server.close();**

**} catch (SocketTimeoutException e) {**

**System.out.println("Socket timed out");**

**break;**

**} catch (IOException e) {**

**e.printStackTrace();**

**}**

**}**

**}**

**public static void main(String[] args) {**

**int port=Integer.parseInt(args[0]);**

**try {**

**Thread t=new GreetingServer(port);**

**} catch (IOException e) {**

**e.printStackTrace();**

**}**

**}**

**}**

**Client**

**import java.net.\*;**

**import java.io.\*;**

**public class client {**

**public static void main(String[] args) {**

**String serverName=args[0];**

**int port=Integer.parseInt(args[1]);**

**try {**

**System.out.println("Connecting to " + serverName+"on port"+port);**

**Socket client=new Socket(serverName,port);**

**System.out.println("Just Connected to" + client.getRemoteSocketAddress());**

**OutputStream outToServer=client.getOutputStream();**

**DataOutputStream out=new DataOutputStream(outToServer);**

**out.writeUTF("Hello from " + client.getLocalSocketAddress());**

**InputStream inFromServer=client.getInputStream();**

**DataInputStream in=new DataInputStream(inFromServer);**

**System.out.println(("Server Says " + in.readUTF()));**

**client.close();**

**}**

**catch(IOException e)**

**{**

**e.printStackTrace();**

**}**

**}**

**}**

***OUTPUT:-***

