**NAME : SAHANA S**

**REG NO :192321131**

**SUB CODE-ITA0205**

**(WEB TECHNOLOGY )**

**Exercise 1**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="description" content="A sample webpage showing head tag usage">

<meta name="author" content="Student Name">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Sample Web Page</title>

<link rel="stylesheet" href="styles.css">

<style>

body {

font-family: Arial, sans-serif;

background-color: #f0f8ff;

}

</style>

<script>

console.log("Page Loaded Successfully!");

</script>

</head>

<body>

<header>

<h1>Welcome to My Web Page</h1>

</header>

<main>

<p>This page demonstrates the use of head section tags.</p>

</main>

<footer>

<p>© 2025 Student Name. All rights reserved.</p>

</footer>

</body>

</html>

**Exercise 2**

<html>

<head>

<title>Nearest Odd Number</title>

<script>

function findNearestOdd() {

let num = parseInt(prompt("Enter a number:"));

let nearestOdd;

if (num % 2 === 0) {

nearestOdd = num + 1; // or num - 1

} else {

nearestOdd = num;

}

alert("The nearest odd number is: " + nearestOdd);

}

</script>

</head>

<body>

<h1>Nearest Odd Number Finder</h1>

<button onclick="findNearestOdd()">Find Nearest Odd</button>

</body>

</html>

**Exercise 3**

index.html

<!DOCTYPE html>

<html>

<head>

<title>Relative Positioning Example</title>

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

</head>

<body>

<div class="parent">

<h1 class="child">Welcome to CSS Positioning</h1>

<p>This paragraph remains normally positioned.</p>

</div>

</body>

</html>

style.css

.parent {

border: 2px solid blue;

padding: 20px;

width: 400px;

height: 200px;

position: relative;

}

.child {

position: relative;

top: 30px; /\* Move the h1 element 30px down \*/

left: 20px; /\* Move the h1 element 20px to the right \*/

color: darkgreen;

}

**Exercise 4**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class StudentRegistrationServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// HTML Form

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

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

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

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

if (name == null || regno == null || course == null || email == null) {

out.println("<html><body>");

out.println("<h2>Student Registration Form</h2>");

out.println("<form method='get'>");

out.println("Name: <input type='text' name='name'><br><br>");

out.println("Registration Number: <input type='text' name='regno'><br><br>");

out.println("Course: <input type='text' name='course'><br><br>");

out.println("Email: <input type='text' name='email'><br><br>");

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

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

out.println("</body></html>");7

} else {

out.println("<html><body>");

out.println("<h2>Student Registration Details</h2>");

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

out.println("<p><strong>Registration Number:</strong> " + regno + "</p>");

out.println("<p><strong>Course:</strong> " + course + "</p>");

out.println("<p><strong>Email:</strong> " + email + "</p>");

out.println("</body></html>");

}

}

}

**Exercise 5**

<!DOCTYPE html>

<html>

<head>

<title>Employee Registration Form</title>

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

</head>

<body>

<div class="container">

<h2>Employee Registration Form</h2>8

<form>

<label for="name">Employee Name:</label>

<input type="text" id="name" name="name" required><br><br>

<label for="id">Employee ID:</label>

<input type="text" id="id" name="id" required><br><br>

<label for="address">Address:</label><br>

<textarea id="address" name="address" rows="4" cols="30" required></textarea><br><br>

<label for="dept">Department:</label>

<input type="text" id="dept" name="dept" required><br><br>

<label for="mobile">Mobile Number:</label>

<input type="text" id="mobile" name="mobile" required><br><br>

<label for="city">City:</label>

<select id="city" name="city" required>

<option value="">--Select City--</option>

<option value="Chennai">Chennai</option>

<option value="Bangalore">Bangalore</option>

<option value="Hyderabad">Hyderabad</option>

<option value="Mumbai">Mumbai</option>

</select><br><br>

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

</form>

</div>

</body>

</html>

style.css

body {

font-family: Arial, sans-serif;

background-color: #f0f8ff;

}

.container {

background-color: white;

padding: 20px;

margin: 50px auto;

width: 400px;

border: 2px solid #ccc;

border-radius: 10px;

}

h2 {

text-align: center;

color: darkblue;

}

label {9

font-weight: bold;

}

input[type="text"], textarea, select {

width: 100%;

padding: 8px;

margin: 5px 0 15px 0;

border: 1px solid #ccc;

border-radius: 5px;

}

input[type="submit"] {

background-color: darkblue;

color: white;

padding: 10px;

width: 100%;

border: none;

border-radius: 5px;

cursor: pointer;

}

input[type="submit"]:hover {

background-color: navy;

}

**Exercise 6**

<!DOCTYPE html>

<html>

<head>

<title>Class Selector Example</title>

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

</head>

<body>

<h1 class="main-heading">Welcome to Web Development</h1>

<p class="intro-para">This paragraph is styled using a class selector. It introduces the

topic.</p>

<p class="content-para">This is another paragraph with different styling using another

class.</p>

<button class="btn-primary">Click Me!</button>

<button class="btn-secondary">Submit</button>

</body>

</html>

styles.css

body {

font-family: Arial, sans-serif;

background-color: #f5f5f5;

}

.main-heading {

color: darkgreen;

text-align: center;

margin-top: 20px;

}

.intro-para {

color: navy;

font-size: 18px;

padding: 10px;

background-color: #e0f7fa;

margin: 20px;

}

.content-para {

color: maroon;

font-size: 16px;

padding: 10px;

background-color: #ffe0b2;

margin: 20px;

}

.btn-primary {

background-color: royalblue;

color: white;

padding: 10px 20px;

border: none;11

margin: 10px;

border-radius: 5px;

cursor: pointer;

}

.btn-secondary {

background-color: darkorange;

color: white;

padding: 10px 20px;

border: none;

margin: 10px;

border-radius: 5px;

cursor: pointer;

}

**Exercise 7**

<!DOCTYPE html>

<html>

<head>

<title>Float Positioning Example</title>

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

</head>

<body>

<div class="box-left">

<h2>Left Box</h2>

<p>This box floats to the left side.</p>

</div>

<div class="box-right">

<h2>Right Box</h2>12

<p>This box floats to the right side.</p>

</div>

</body>

</html>

**style.css**

body {

font-family: Arial, sans-serif;

margin: 20px;

}

.box-left {

width: 45%;

float: left;

background-color: #add8e6;

padding: 20px;

margin-right: 5%;

}

.box-right {

width: 45%;

float: left;

background-color: #f08080;

padding: 20px;

}

/\* Clear floats after the floated elements \*/

body::after {

content: "";

display: table;

clear: both;

}

**Exercise 8**

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Number Operations</title>

</head>

<body>

<h1>JavaScript Number Operations</h1>

<script>

var num = 1234.56789;

// Find exponential value

var exponentialValue = num.toExponential(2);

// Limit decimal places

var fixedDecimal = num.toFixed(3);

// Convert number to string

var numberToString = num.toString();

// Return negative infinity

var negativeInfinity = Number.NEGATIVE\_INFINITY;

// Display outputs

document.write("<h3>Exponential Value (2 digits): " + exponentialValue + "</h3>");

document.write("<h3>Fixed Decimal (3 places): " + fixedDecimal + "</h3>");

document.write("<h3>Number to String: " + numberToString + "</h3>");

document.write("<h3>Negative Infinity: " + negativeInfinity + "</h3>");

</script>

</body>

</html>

**Exercise 9**

<!DOCTYPE html>

<html>

<head>

<title>Email Validation</title>

<script>

function validateEmail() {

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

var pattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

if (pattern.test(email)) {

alert("Valid Email Address!");

return true;

} else {

alert("Invalid Email Address! Please enter a valid email.");

return false;

}

}

</script>

</head>

<body>

<h2>Email Validation Form</h2>

<form onsubmit="return validateEmail()">

<label for="email">Enter your Email:</label><br><br>

<input type="text" id="email" name="email" required><br><br>

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

</form>

</body>

</html>

**Exercise 10**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Background GIF with CSS</title>

<style>

body {

margin: 0;

padding: 0;

height: 100vh;

}

.background-container {

background-image: url('your-gif.gif'); /\* Use the path to your GIF file \*/

background-size: cover; /\* Make the background cover the entire screen \*/

background-position: center;

height: 100vh;

width: 100%;

transition: opacity 2s ease-in-out; /\* Smooth transition for opacity \*/

opacity: 0.7; /\* Initial transparency \*/

}

/\* On hover, change the transparency \*/

.background-container:hover {

opacity: 1; /\* Full opacity on hover \*/

}

</style>

</head>

<body>16

<div class="background-container">

<!-- You can add content here if you wish -->

<h1 style="color: white; text-align: center; padding-top: 40%;">Welcome to the Animated

Background!</h1>

</div>

</body>

</html>

**Exercise 11**

<!DOCTYPE html>

<html>

<head>

<title>Picture Slider with Radio Buttons</title>

<style>

.slider {

width: 500px;

height: 300px;

position: relative;

overflow: hidden;

}

.slides {

display: flex;

width: 200%;

transition: transform 1s ease;

}

input[type=radio] {

display: none;

}

.slide {

width: 500px;17

height: 300px;

flex-shrink: 0;

}

#radio1:checked ~ .slides {

transform: translateX(0%);

}

#radio2:checked ~ .slides {

transform: translateX(-50%);

}

.navigation-manual {

text-align: center;

margin-top: 10px;

}

.manual-btn {

display: inline-block;

padding: 10px;

border: 2px solid #ccc;

cursor: pointer;

margin: 0 5px;

}

</style>

</head>

<body>

<h2>Image Slider with Radio Buttons</h2>

<div class="slider">

<input type="radio" name="radio-btn" id="radio1" checked>

<input type="radio" name="radio-btn" id="radio2">

<div class="slides">

<div class="slide">

<img src="https://via.placeholder.com/500x300?text=Image+1" width="500" height="300">

</div>

<div class="slide">

<img src="https://via.placeholder.com/500x300?text=Image+2" width="500" height="300">

</div>

</div>

<div class="navigation-manual">

<label for="radio1" class="manual-btn">Image 1</label>

<label for="radio2" class="manual-btn">Image 2</label>

</div>

</div>

</body>

</html>

**Exercise 12**

!DOCTYPE html>

<html>

<head>

<title>Organized Web Page</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f0f8ff;

margin: 20px;

}

h1 {

color: darkblue;

}

p {

color: #333;

line-height: 1.6;

}

ul {

list-style-type: square;

color: green;

}

img {

width: 200px;

height: auto;

}

</style>

</head>

<body>

<h1>Welcome to My Web Page</h1>

<p>This page is styled using internal CSS.</p>

<ul>

<li>HTML</li>

<li>CSS</li>

<li>JavaScript</li>

</ul>

<img src="https://via.placeholder.com/200" alt="Sample Image">19

</body>

</html>

**EXERICSE 13**

!DOCTYPE html>

<html>

<head>

<title>Inline and Internal CSS</title>

<style>

h2 {

color: green;

text-align: center;

}

p {

font-family: Verdana;

color: #444;

}

</style>

</head>

<body>

<h2>CSS Styling Example</h2>

<p>This paragraph is styled with internal CSS.</p>

<p style="color: blue; font-size: 18px;">This paragraph uses inline CSS.</p>

</body>

</html>

**EXERCISE 14**

!DOCTYPE html>

<html>

<head>

<title>Absolute Positioning</title>

<style>

.box1, .box2 {

position: absolute;

width: 200px;

height: 200px;

}

.box1 {

background-color: red;

top: 50px;

left: 50px;

}

.box2 {

background-color: blue;

top: 70px;

left: 70px;

opacity: 0.7;

}

</style>

</head>

<body>

<div class="box1"></div>

<div class="box2"></div>

</body>

</html>

**EXERICSE 15**

<!DOCTYPE html>

<html>

<head>

<title>Background Repeat</title>

<style>

body {

background-image: url('https://via.placeholder.com/100');

background-repeat: repeat;

}

</style>

</head>

<body>

<h1>Repeating Background</h1>

<p>This page uses a repeating background image.</p>

</body>

</html>

**EXERICSE 16**

!DOCTYPE html>

<html>

<head>

<title>Employee Details</title>

</head>

<body>

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

Name: <input type="text" name="ename"><br>

Department: <input type="text" name="edept"><br>

Employee ID: <input type="text" name="eid"><br>

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

</form>

</body>

</html>

**EXERICSE 17**

<!DOCTYPE html>

<html>

<head>

<title>Student Mark List</title>

<style>

table {

width: 60%;

border-collapse: collapse;

}

th, td {

border: 1px solid black;

padding: 8px;

text-align: center;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h2>Class Test Mark List</h2>

<table>

<tr>

<th>Name</th>

<th>Math</th>

<th>Science</th>

<th>English</th>

</tr>

<tr>

<td>John</td>

<td>85</td>

<td>78</td>

<td>92</td>

</tr>

<tr>

<td>Alice</td>

<td>90</td>

<td>88</td>

<td>95</td>

</tr>

</table>

</body>

</html>

**EXERICSE 18**

!DOCTYPE html>

<html>

<head>

<title>Box Model Example</title>

<style>

.box {

width: 300px;

padding: 20px;

border: 5px solid blue;

margin: 30px;

background-color: lightgray;

}

</style>

</head>

<body>

<div class="box">

This div demonstrates the CSS box model.

</div>

</body>

</html>

**EXERICSE 19**

<!DOCTYPE html>

<html>

<head>

<title>Job Portal</title>

<style>

body {

font-family: Arial;

background-color: #e6f2ff;

}

.form-container {

background: #fff;

padding: 20px;

margin: 50px auto;

width: 400px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

}

input, select {

width: 100%;

padding: 10px;

margin: 10px 0;

}

</style>

</head>

<body>

<div class="form-container">

<h2>Job Application Form</h2>

<form>

Name: <input type="text"><br>

Email: <input type="email"><br>

Job Role:

<select>

<option>Developer</option>

<option>Designer</option>

<option>Manager</option>

</select><br>

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

</form>

</div>

</body>26

</html>

**EXERICSE 20**

<!DOCTYPE html>

<html>

<head>

<title>Emoji Positioning</title>

<style>

.emoji {

font-size: 48px;

position: absolute;

top: 100px;

left: 100px;

}

</style>

</head>

<body>

<div class="emoji"> </div>

</body>

</html>

**EXERICSE 21**

!DOCTYPE html>

<html>

<frameset cols="50%,50%">

<frame src="left.html">

<frame src="right.html">

</frameset>

</html>

**EXERICSE 22**

!DOCTYPE html>

<html>

<head>

<title>Multimedia Page</title>

</head>

<body>

<h2>Audio and Video Example</h2>

<audio controls>

<source src="sample.mp3" type="audio/mp3">

</audio>

<br><br>

<video width="320" height="240" controls>

<source src="sample.mp4" type="video/mp4">

</video>28

</body>

</html>

**EXERICSE 23**

<!DOCTYPE html>

<html>

<head><title>Menu Selection</title></head>

<body>

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

<input type="checkbox" name="dish" value="Pizza">Pizza<br>

<input type="checkbox" name="dish" value="Burger">Burger<br>

<input type="checkbox" name="dish" value="Pasta">Pasta<br>

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

</form>

</body>

</html>

**EXERICSE 24**

!DOCTYPE html>

<html>

<head>

<title>Date and Time</title>

</head>

<body>

<h2>Current Date and Time</h2>

<p id="datetime"></p>

<script>

const now = new Date();

document.getElementById("datetime").innerHTML = now;

</script>

</body>

</html>

**EXERICSE 25**

!DOCTYPE html>

<html>

<head><title>String Operations</title></head>

<body>

<h2>JavaScript String Operations</h2>

<script>

let str = "hello";

let str2 = " world";

document.write("Char at 1: " + str.charAt(1) + "<br>");

document.write("Unicode at 1: " + str.charCodeAt(1) + "<br>");

document.write("Concatenated: " + str.concat(str2) + "<br>");

document.write("From Unicode 72: " + String.fromCharCode(72) + "<br>");

document.write("Uppercase: " + str.toUpperCase() + "<br>");

</script>

</body>

</html>

**EXERICSE 26**

!DOCTYPE html>

<html>

<head>

<title>Background Image</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<h2>External CSS Background</h2>

</body>

</html>

**Program (style.css):**31

body {

background-image: url('background.jpg');

background-size: cover;

}

**EXERICSE 27**

%@ page language="java" %>

<%

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

if(count == null){

count = 1;

} else {

count++;

}

application.setAttribute("count", count);

%>

<h2>Total Visitors: <%= count %></h2>

**EXERICSE 28**

!DOCTYPE html>

<html>

<head><title>Student Registration</title></head>

<body>

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

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

Roll No: <input type="text" name="roll"><br>

Department: <input type="text" name="dept"><br>

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

</form>

</body>

</html>

**Program (Servlet):**32

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class StudentServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

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

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

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

out.println("<h2>Student Details</h2>");

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

out.println("Roll No: " + roll + "<br>");

out.println("Department: " + dept);

}

**EXERICSE 29**

!DOCTYPE html>

<html>

<head>

<title>Internal CSS Background</title>

<style>

body {

background-image: url('background.jpg');

background-size: cover;

}

</style>

</head>

<body>

<h2>Internal CSS Background</h2>

</body>

</html>

**EXERICSE 30**

!DOCTYPE html>

<html>

<head><title>Employee Registration</title></head>

<body>

<form action="employee.jsp" method="post">

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

ID: <input type="text" name="id"><br>

Department: <input type="text" name="dept"><br>

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

</form>

</body>

</html>

**Program (employee.jsp):**

<%@ page language="java" %>

<%

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

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

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

%>

<h2>Employee Details</h2>

Name: <%= name %><br>

ID: <%= id %><br>

Department: <%= dept %>

**EXERICSE 31**

!DOCTYPE html>

<html>

<head><title>Date & Time</title></head>

<body>

<h2>Current Date and Time</h2>

<p id="output"></p>

<script>

let now = new Date();

document.getElementById("output").innerText = now;

</script>

</body>

</html>

**EXERICSE 32**

<!DOCTYPE html>

<html>

<head>

<style>

@keyframes move {

0% { left: 0; background-color: red; }

50% { left: 100px; background-color: yellow; }

100% { left: 0; background-color: red; }

}

#box {

width: 100px; height: 100px;

position: relative;

animation: move 3s infinite;

}

</style>

</head>

<body>

<div id="box"></div>

</body>

</html>

**EXERICSE 33**

!DOCTYPE html>

<html>

<head><title>Student Registration</title></head>

<body>

<form onsubmit="return validateForm()">

Name: <input type="text" id="name"><br>

Email: <input type="email" id="email"><br>

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

</form>

<script>35

function validateForm() {

if (document.getElementById("name").value === "") {

alert("Name is required"); return false;

}

if (document.getElementById("email").value === "") {

alert("Email is required"); return false;

}

return true;

}

</script>

</body>

</html>

**EXERICSE 34**

!DOCTYPE html>

<html>

<head><title>Travel Items</title></head>

<body>

<h3>Ordered List</h3>

<ol>

<li>Passport</li>

<li>Tickets</li>

<li>Wallet</li>

</ol>

<h3>Unordered List</h3>

<ul>

<li>Camera</li>

<li>Snacks</li>

<li>Map</li>

</ul>

</body>

</html>

**EXERICSE 35**

!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="relative-box">Relative</div>

<div class="absolute-box">Absolute</div>

</body>

</html>

Program (style.css):

.relative-box {

position: relative;

top: 20px;

left: 30px;

background: lightgreen;

width: 100px;

}

.absolute-box {

position: absolute;

top: 50px;

left: 100px;

background: orange;

width: 100px;

}

**EXERICSE 36**

ome.html

<html>

<head>

<title>Home-StatesofIndia!!!</title>

</head>

<bodybgcolor="gold">

<h1><u><center>RepublicofIndia</center></u></h1>

<p>

IndiaistheSeventhLargestcountryintheworldbygeographicalare

a,thesecondmostPopulouscountrywithover1.3billionpeople,Ind

iaisavastSouthAsiancountrywithdiverseterrain–

fromHimalayanpeakstoIndianOceancoastline–

andhistoryreachingback5millennia..Indiaisafederalconstitutionalrepublicwithaparliamentaryde

mocracyconsistingof28states and7Union Territories.</p>

<center>

<imgalign="center"width="275"height="290"alt="India"src="IndiaMap.jpg"usemap="#indi

a"ismap="ismap">

<mapname="india">

<areashape="circle"coords="100,200,10"href="ANDHRAPRADESH.html"alt="Learna

bout andra">

<areashape="circle"coords="70,275,10"href="KERALA.html"alt="Learnaboutkerala">

<areashape="circle"coords="70,210,20"href="KARNATAKA.html"alt="Learnaboutkar

nata ka">

<areashape="circle"coords="100,250,20"href="TAMILNADU.html"alt="Learnaboutta

miln adu">

</map></center>

<h2>Features</h2>

<ul>

<li><b>Population</b>-133.92crores(2019).

<li><b>Capital</b>-NewDelhi

<li><b>LargestCity</b>-Mumbai

<li><b>Currency</b>-IndianRupee

<li><b>TimeFormat</b>-IST(UTC+5:30)

<li><b>NationalSport</b>-Hockey

<li><b>CurrentPM</b>-NarendraModi

<li><b>CurrentPresident</b>-PranabMukherjee

</li>

</ul>

<h2><b>Toviewdetailsofsouthernstatespleaseclickonthespecifiedareainthemap!</b>

</h2>

</body>

</html>

Tamilnadu.html

<html>

<head><title>TamilNadu-India</title></head>

<bodybgcolor="palegreen">

<h1><center>TamilNadu</center></h1>

<h3>isoneofthe29statesofIndia.ItscapitalandlargestcityisChennai.TamilNadulies

inthesouthernmostpartoftheIndianPeninsulaand

ItisborderedbytheStatesofPuducherry,Kerala,Karnataka,AndhraPradesh38

</h3><h3>

<ul>

<li>Districts<i>-37</i>

<li>CapitalCity<i>-Chennai</i>

<li>LargestCity<i>-Chennai</i>

<li>Governor<i>-BanwarilalPurohit</i>

<li>ChiefMinister<i>-Palanisamy</i>

<li>Population<i>-80,351,195</i>

<li>Touristspots<i>-

Mamallapuran,Ooty,Kodaikanal,Marina,MuduraiMeenakshiAmmanTem

ple,Thanjavuretc.,</i>

</ul>

<ahref="Home.html">back</a>

</body>

</html>

andhrapradesh.html

<html>

<head><title>AndhraPradesh-India</title></head>

<bodybgcolor="tan">

<h1><center>AndhraPradesh</center></h1>

<h3>A.P.,isastatesituatedonthesoutheasterncoastofIndia.ItisIndia'sfourthl

argeststatebyareaandfifthlargestbypopulation.</h3>

<h3>

<ul>

<li>Districts<i>-13</i>

<li>CapitalCity<i>-Hyderabad</i>

<li>LargestCity<i>-Hyderabad</i>

<li>Governor<i>-BISWABHUSANHARICHARAN</i>

<li>ChiefMinister<i>-Y.S.JAGANMOHANREDDY</i>

<li>Population<i>-91,103,010</i>

<li>Touristspots<i>-

TirumalaTirupati,Guntur,GolcondaFort,Chandragiri,Arakuvalley,F

alaknumaPalaceetc.,</i>

</ul>

<ahref="Home.html">back</a>

</body> </html>

Karnataka.html

<html>

<head><title>Karnataka-India</title></head>

<bodybgcolor="wheat">

<h1><center>Karnataka</center></h1>

<h3> <ul>

<li>Districts<i>-30</i>

<li>CapitalCity<i>-Bangalore</i>

<li>LargestCity<i>-Bangalore</i>

<li>Governor<i>-VajubhaiVala</i>

<li>ChiefMinister<i>-B.S.YEDIYURAPPA</i>

<li>Population<i>- 68,308,304</i>39

<li>Touristspots<i>-GolGumbaz,MysorePalace,KeshavaTempleetc.,</i>

</ul>

</h3>

<ahref="Home.html">back</a>

</body>

</html>

Kerala.html

<html>

<head><title>Kerala-India</title></head>

<bodybgcolor="indianred">

<h1><center>Kerala</center></h1>

<h3>

<ul>

<li>Districts<i>-14</i>

<li>CapitalCity<i>-Thiruvanandapuram</i>

<li>LargestCity<i>-Thiruvanandapuram</i>

<li>Governor<i>-ARIFMOHAMMADKHAN</i>

<li>ChiefMinister<i>-PINARAYIVIJAYAN</i>

<li>Population<i>-34,545,868</i>

<li>Touristspots<i>-

EdakkalCaves,Palayur,KovalamBeach,Munnar,Kochi,Alapuzhaetc.,</i>

</ul>

<ahref="Home.html">back</a>

</h3>

</body>

</html>

**EXERICSE 37**

<! DOCTYPE html PUBLIC"-////W3C//DTD XHTML 1.0

TRANSTION//EN"http://www.w3.org/TR/html1/DTD/html1 1.dtd>

<html xmlns="http://www.w3org/1999/xhtml">

<head>

<title>Embedded style sheet</title>

<style type="text/css">h1

{

font-family:arial;

color:green;

}

h2

{

font-family:arial;

color:red;

left:20px

}

h3

{

font-family:arial;

color:blue;

}

p

{

font-sise:14pt;

font-family:verdana

}

</style>

</head>

<body>

<h1>

<center>This is created using embedded style sheet

</center>43

</h1>

<h2>This line is allingned left and red colored;

</h2>

<p>

The embedded style sheet is the most commonly used style

sheet This paragragh is return in verdana font with font size of

14.

</p>

<h3>

This is a blue <a href="colorname.html">colored</a> line

</h3>

</body>

</html>

**EXERICSE 38**

//Webforms.html

<html>

<head>

<script

type='text/javascript'>

function

formValidator()

{

var

firstname=document.getElementById('firstname')

; var

lastname=document.getElementById('lastname'

); var addr=document.getElementById('addr');

var

zip=document.getElementById('zip');

var

Countries=document.getElementById('Countries')

; var

username=document.getElementById('username'

); var email=document.getElementById('email');

var

dd=document.getElementById('dd');

var

mm=document.getElementById('mm'

);

var

yyyy=document.getElementById('yyyy');

var

comment=document.getElementById('comment');var

password=document.getElementById('password');

if(isAlphabet(firstname,"Please enter only letters for your First name"))

{

if(isAlphabet(lastname,"Please enter only letters for your Last name"))45

{

if(isNumeric(dd,"Please enter a date"))

{

if(madeSelection(mm,"Please Choose"))

if(isNumeric(yyyy,"Please enter a year"))

{

if(isAlphanumeric(addr,"Enter Numbers and letters only for address"))

{

if(isNumeric(zip,"please enter a valid zip code"))

{

if(madeSelection(Countries,"Please Choose"))

{

if(lengthRestriction(username,6,8))

{

if(isAlphanumeric(password,"Enter Numbers and letters only for password"))

{

if(emailValidator(email,"Please enter a valid email address"))

{

if(notEmpty(comment,"Please fill the comment"))

{

document.write("<b><i>Thank's for submitting your

details</i></b>");alert("Successful Entry!!");

return true;

}}}}}}}}}}}}

return false;

}

function notEmpty(elem,helperMsg)

{

if(elem.value.length==0)

{

alert(helperMsg)

;elem.focus();

return false;

}

return true;

}

function isNumeric(elem,helperMsg)

{

var numericExpression=/^[0-9]+$/;

if(elem.value.match(numericExpression))

{

return true;

}

else

{

alert(helperMsg)

;elem.focus();

return false;

}

}46

function isAlphabet(elem,helperMsg)

{

var alphaExp=/^[a-zA-Z]+$/;

if(elem.value.match(alphaExp)

)

return true;

}

else

{

alert(helperMsg);

elem.focus()

;return false;

}

}

function isAlphanumeric(elem,helperMsg)

{

var alphaExp=/^[0-9, a-z a-z, 0-9, A-Z A-Z, - 0-9 .

]+$/;if(elem.value.match(alphaExp))

{

return true;

}

else

{

alert(helperMsg)

;elem.focus();

return false;

}

}

function lengthRestriction(elem,min,max)

{

var unput=elem.value;

if(unput.length>=min&&unput.length<=max)

{

return true;

}

else

{

alert("Please enter between "+min+" and "+max+"

charactters");elem.focus();

return false;

}

}

function madeSelection(elem,helperMsg)

{

if(elem.value=="Please Choose")

{

alert(helperMsg)

;elem.focus();

return false;

}47

else

{

return true;

}

}

function emailValidator(elem,helperMsg)

var emailExp=/^[0-9 a-z . a-z 0-9]+\@[a-z]+\.[a

z]{2,4}$/;if(elem.value.match(emailExp))

{

return true;

}

else

{

alert(helperMsg)

;elem.focus();

return false;

}

}

</script>

<h1><center><b><font

color="#347235">Please Enter

YourDetails</font></b></center></h1>

</head>

<body bgcolor="LIGHTGREEN">

<hr>

<form onsubmit='return formValidator()' height="50%">

<table height="50%" border="3pt" align="center">

<tr><td><b><font

color="#347235">First

Name:</font></b></td><td><inputtype='text'

id='firstname'/></td></tr><br />

<tr><td><b><font color="#347235">Last

Name:</font></b></td><td><inputtype='text'

id='lastname'/></td></tr><br

/>

<tr><td><b><font color="347235">Date of

Birth(dd/mm/yyyy):</font></b></td><td><input

type='text' id='dd' />

<select id='mm'>

<option>Please Choose</option>

<option value="1">Jan</option>

<option value="2">Feb</option>

<option value="3">Mar</option>

<option value="4">Apr</option>

<option value="5">May</option>

<option value="6">Jun</option>

<option value="7">Jul</option>

<option value="8">Aug</option>

<option value="9">Sep</option>

<option value="10">Oct</option>48

<option value="11">Nov</option>

<option value="12">Dec</option>

</select>

<input type='text' id='yyyy' /></td></tr><br />

<tr><td><b><font

color="#347235">Address:</font></b></td><td><inputtype='t

ext' id='addr'/></td></tr><br />

<tr><td><b><font color="#347235">Zip

code:</font></b></td><td><inputtype='text' id='zip'/></td></tr><br />

<tr><td><b><font

color="#347235">Countries:</font></b></td><td><selectid='Countries'>

<option>Please Choose</option>

<option value="United Kingdom">United Kingdom</option>

<option value="Afghanistan">Afghanistan</option>

<option value="America">America</option>

<option value="India">India</option>

<option value="Tanzania">Tanzania</option>

<option value="Zimbabwe">Zimbabwe</option>

<option value="Switzerland">Switzerland</option>

</select></td></tr><br />

<tr><td><b><font color="#347235">Username(6-8

characters):</font></b></td><td><input type='text'

id='username'

/></td></tr><br />

<tr><td><b><font

color="#347235">Password:</font></b></td><td><inputtype='passwo

rd' id='password' /></td></tr><br />

<tr><td><b><font

color="#347235">Email:</font></b></td><td><inputtype='text

' id='email' /></td></tr><br />

<tr><td><b><font

color="#347235">Comment:</font></b></td><td><textarea

id='comment'cols="20"rows="5"

name="Address"></textarea></td></tr><br />

<tr><td><input type='submit' value='Check Form' /></td></tr>

</table>

</form>

</body></html

**EXERICSE 39 A**

/index.jsp

<html>

<head>

<title>Processing get requests with data</title>

</head>

<body>

<br

/>

<form action = "Servlet3" method = "get">

<b><p><label>Enter Your name Please!!54

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

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

</label></p></b>

</form>

</body>

</html>

//Servlet3.java

import

java.io.IOException;import

java.io.PrintWriter;

import

javax.servlet.ServletException;

import

javax.servlet.annotation.WebServle

t; import

javax.servlet.http.HttpServlet;

import

javax.servlet.http.HttpServletRequest;

import

javax.servlet.http.HttpServletResponse;

public class Servlet3 extends HttpServlet {

protected void doGet(HttpServletRequest request,

HttpServletResponseresponse)

throws ServletException, IOException {

String firstName = request.getParameter(

"firstname"

);response.setContentType(

"text/html" ); PrintWriter out =

response.getWriter();

// send XHTML document to client

// start XHTML

documentout.println(

"<html>" );

// head section of

documentout.println(

"<head>" );

out.println("<title>Processing get requests with data</title>"

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

// body section of

documentout.println(

"<body>" );

out.println( "<h1>Hello " + firstName + ",<br />"

);out.println( "Welcome to Servlets!</h1>" );

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

// end XHTML document

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

out.close(); // close stream to complete the page

}

public String

getServletInfo()55

{ return "Short

description";

}

**EXERICSE 39 B**

mport java.io.\*;

import java.util.\*;

import

javax.servlet.\*;

import javax.servlet.http.\*;

// Extend HttpServlet class

public class GfgSession extends HttpServlet {

public void doGet(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException

{

// Create a session object if it is already not

// created.

HttpSession session = request.getSession(true);

// Get session creation

time. Date createTime

= new Date(session.getCreationTime());

// Get last access time of this web

page. Date lastAccessTime

= new Date(session.getLastAccessedTime());

String title = "Welcome Back to geeksforgeeks";

Integer visitCount = new Integer(0);

String visitCountKey = new String("visitCount"); 57

String userIDKey = new String("userID");

String userID = new String("GFG");

// Check if this is new comer on your web

page. if (session.isNew()) {

title = "Welcome to GeeksForGeeks";

session.setAttribute(userIDKey, userID);

}

else {

visitCount = (Integer)session.getAttribute(

visitCountKey);

visitCount = visitCount + 1;

userID

= (String)session.getAttribute(userIDKey);

}

session.setAttribute(visitCountKey, visitCount);

// Set response content type

response.setContentType("text/html");

PrintWriter out = response.getWriter();

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"

+ "<h2 align = \"center\">Gfg Session Information</h2>\n"

+ "<table border = \"1\" align = \"center\">\n"

+

"<tr bgcolor = \"#949494\">\n"

+ " <th>Session info</th><th>value</th>"

+ "</tr>\n"

+

"<tr>\n"

+ " <td>id</td>\n"

+ " <td>" + session.getId() + "</td>"

+ "</tr>\n"

+

"<tr>\n"

+ " <td>Creation Time</td>\n"

+ " <td>" + createTime + " </td>"

+ "</tr>\n"

+

"<tr>\n"58

+ " <td>Time of Last Access</td>\n"

+ " <td>" + lastAccessTime + "</td>"

+ "</tr>\n"

+

"<tr>\n"

+ " <td>User ID</td>\n"

+ " <td>" + userID + "</td>"

+ "</tr>\n"

+

"<tr>\n"

+ " <td>Number of visits</td>\n"

+ " <td>" + visitCount + "</td>"

+ "</tr>\n"

+ "</table>\n"

+ "</body>"

+ "</html>");

}

}

**EXERICSE 40 A**

//index.jsp

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Welcome to Online Examination!!!!</title>

</head>

<body>

Welcome to Online Examination!!!!

<form action="exam" method="get">

<label><p> Enter Your name Please!!<br/> <input

type="text"name="name"/>

<br/>

<input type="submit" name="SUBMIT"/>

</p></label>

</form>

</body>

</html>61

//exam.java

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;public

class exam extends HttpServlet {

protected void doGet(HttpServletRequest request,

HttpServletResponseresponse)

throws ServletException,

IOException {

response.setContentType("text/html");

PrintWriter out=response.getWriter();

String

name=request.getParameter("name");

out.println("<html>");

out.println("<head>");

out.println("<title>Online Examination</title>");

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

out.println("<body bgcolor=PINK>");

out.println("<h2 align=center>Online

Examination</h2><hr>"); out.println("<h3 align=center>

Welcome

Mr."+name+"</h3><hr>");out.println("<h4><u>Terms and

Conditions:</u></h4>"); out.println("<ul type=disc>");

out.println("<li>The Paper consists a set of five

questions.</li>"); out.println("<li>Every question consists of

two options.</li>"); out.println("<li>All must be

answered</li></ul><hr>");

out.println("<center><h5><u>Your

Questions</u></h5></center>");out.println("<hr>");

out.println("<form method=get action=exam2>");

out.println("<p>1.Operating System is a ..........</p>");

out.println("<input type=radio name=q1

value=0>Hardware");out.println("<br>");

out.println("<input type=radio name=q1

value=1>Software");out.println("<hr>");

out.println("<p>2.Developer of C Language is .........</p>");

out.println("<br>");

out.println("<input type=radio name=q2

value=0>Dennis Richee");out.println("<br>");

out.println("<input type=radio name=q2

value=1>James Thompson");out.println("<hr>");

out.println("<p>3.Which of the following is a multitasking,multi

user,multiprocessing);

out.println("OS.......</p>");62

out.println("<br>");

out.println("<input type=radio name=q3 value=0>MS

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

out.println("<input type=radio name=q3 value=1>Windows

NT");out.println("<hr>");

out.println("<p>4.Father of Computers is .......... </p>");

out.println("<br>");

out.println("<input type=radio name=q4

value=1>Charles babbage");out.println("<br>");

out.println("<input type=radio name=q4

value=0>Charles Dickson");out.println("<hr>");

out.println("<p>5.What is the current generation of computers

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

out.println("<input type=radio name=q5

value=0>Fifth");out.println("<br>");

out.println("<input type=radio name=q5

value=1>Sixth");out.println("<hr>");

out.println("<input type=submit

value=Done>");out.println("</form>");

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

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

}

public String getServletInfo()

{ return "A Servlet of the

user";

}

}

//exam2.java

import

java.io.IOException;impor

t java.io.PrintWriter;

import

javax.servlet.ServletException;

import

javax.servlet.annotation.WebServle

t;

import javax.servlet.http.HttpServlet;

import

javax.servlet.http.HttpServletRequest;

import

javax.servlet.http.HttpServletResponse;pu

blic class exam2 extends HttpServlet {

protected void doGet(HttpServletRequest request,

HttpServletResponse

response)

throws ServletException,

IOException {int count=0,j; 63

response.setContentType("text/h

tml ");PrintWriter

out=response.getWriter(); String

q1=request.getParameter("q1");

String

q2=request.getParameter("q2");

String

q3=request.getParameter("q3");

String

q4=request.getParameter("q4");

String

q5=request.getParameter("q5");

if(q1.equals("1"))

{

count=count+1;

}

if(q2.equals("1"))

{

count=count+1;

}

if(q3.equals("1"))

{

count=count+1;

}

if(q4.equals("1"))

{

count=count+1;

}

if(q5.equals("1"))

{

count=count+1;

}

out.println("<html>");

out.println("<head><title>Examination

Results</title></head>");out.println("<body>");

out.println("<h2 align=center<Online Examination</h2><hr>");

out.println("<h3>Number of Questions answered

correctly:</h3>"+count);if(count>=3)

{

out.println("<hr><h3>Congrats!!! You Have

Passed!!!</h3><hr>");

out.println("<h4><b>Try Other Tests!!</b></h4>");

}

else

{

out.println("<hr><h3>Sorry!!! You Have 64

Failed!!!</h3><hr>");out.println("<h4><b>Try

Again:</b></h4>");

}

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

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

}

public String getServletInfo()

{ return "A Servlet of the

User";

}

}

**EXERICSE 40 B**

<%@ page contentType="text/html" language="java" import="java.sql.\*"%>

<html>

<head>

<title>Three Tier Application</title>

<style type="text/css">

body{color:blue;font-family:courier;text-align:center}

</style></head><body>

<h2>EXAMINATION RESULT</h2><hr/>

<%

String str=request.getParameter("regno");

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

Connection

con=DriverManager.getConnection("jdbc:odbc:markDS");

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery("SELECT\*FROM markTab WHERE rno="+str);

while(rs.next())

{

%>

Register

No:<%=rs.getObject(1)%><br/>

Name:<%=rs.getObject(2)%><br/>

<table border="1">

<th>SUBJECT</th><th>Mark</th>

<tr><td>Network Programming and

Management</td><td><%=rs.getObject(3)%></td></tr>

<tr><td>Object Oriented Analysis and Design</td><td><%=rs.getObject(4)%></td></tr>

<tr><td>Cryptography and Network Security</td><td><%=rs.getObject(5)%></td></tr>

<tr><td>Embedded Systems</td><td><%=rs.getObject(6)%></td></tr>

<tr><td>Web Technology</td><td><%=rs.getObject(7)%></td></tr>

<tr><td>Software Requirement and

Engineering</td><td><%=rs.getObject(8)%></td></tr>

</table>

<%}

%>

<br/>

<a href="stud.html">Back</a>67

</body></html>

**stud.HTML:**

<html>

<head>

<title>Three Tier Application</title>

<style type="text/css">

body{color:blue;font-family:courier;text-align:center}

</style>

</head>

<body>

<h2>EXAMINATION RESULT</h2><hr/>

<form name="f1" method"GET"

action="marklist.jsp"> Enter Your Reg.No:

<input type="text" name="regno"/><br/><br/>

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

</form>

</body>

<html>

**EXERICSE 41**

/student.xml

<?xml version="1.0"?>

<?xml-stylesheet type="text/css" href="student.css"?>

<!DOCTYPE student SYSTEM "student.dtd">

<students>

<student>

<sno>801041</sno>

<sname>S.Soundarapandian</sname>

<dob>05/081991</dob>

<address>Neyveli</address>

<m1>80</m1>

<m2>90</m2>

<m3>95</m3>

</student>

<student>

<sno>801049</sno>

<sname>R.Vadivelan</sname>

<dob>22/07/1990</dob>

<address>Pondicherry</address>

<m1>90</m1>

<m2>95</m2>

<m3>80</m3>

</student>

<student>

<sno>801037</sno>

<sname>R.Satheesh</sname>

<dob>21/01/1991</dob>

<address>Kanyakumari</address>

<m1>80</m1>

<m2>90</m2>

<m3>95</m3>

</student>

</students>//student.css

Student {

background.color:#aabbcc;width:100%;}

Sno { display:block; color:GREEN;

font.size:25pt; } Sname { display:block;

color:BLACK; font.size:20pt; }Dob {

display:block; color:BLUE; font.size:15pt;

} Address { display:block; color:BLUE;

font.size:15pt; }m1 { display:block;

color:BLUE; font.size:15pt; }

m2 { display:block; color:BLUE;

font.size:15pt; }m3 { display:block;

color:BLUE; font.size:15pt;}

//student.dt

d`

<?xml

version="1

.0"?>

<!ELEMENT students (student+)>

<!ELEMENT student (sno,sname,dob,address,m1,m2,m3)>

<!ELEMENT sno (#PCDATA)>

<!ELEMENT sname (#PCDATA)>

<!ELEMENT dob (#PCDATA)>

<!ELEMENT address (#PCDATA)>

<!ELEMENT m1 (#PCDATA)>

<!ELEMENT m2 (#PCDATA)>

<!ELEMENT m3 (#PCDATA)>