**WEB TECHNOLOGY**

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**COURSE CODE : ITA0205**

**Exercise 1**

A web page is created using HTML, consists of various divisions which includes, head, body and footer parts. Write a program which includes various tags used inside the header tag

**Program:**

<!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**

Write a Javascript program to get the numbers from the user and display only the nearest odd

numbers.

**Program:**

<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

E**xercise 3**

Create a HTML web page, change the position of the element relative to the parent element and relative to itself using relative positioning with a CSS file

**Program:**

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**

To write a **Java Servlet** program that accepts student registration details through a form and displays the entered details using the same servlet.

**Program:**

**StudentRegistrationServlet.java**

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**

Make a registration form and help the organization to collect their employee’s details like, employer’s name, id, address, department, mobile number and select their city from the drop down list box using HTML and CSS

**Program:**

**employee\_registration.html**

<!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**

Write a HTML program for numerous elements and that should be organized separately with class selector by using Cascading Style Sheets(CSS) for external style sheets

P**rogram:**

**elements.html**

<!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**

To create an **HTML web page** and **use float positioning** in **CSS** to make two elements float side by side.

**Program:**

**float\_example.html**

<!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**

Write a java script page to find the

•Exponential value.

•Limit the number of digits after the decimal value.

•Convert a number to string.

•Return negative infinity using the number object in the HTML document

**Program:**

**number\_operations.html**

<!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**

Write a JavaScript program for Email validation. You can apply validation on the below text questions to ensure they accept answers in a specific format.

**Program:**

**email\_validation.html**

<!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**

Write a HTML program to add a background GIF to a webpage and alter its height, width, transparency and transition using Cascading Style Sheets

**Program:**

**background\_gif.html**

<!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:**

Create a web page to perform animation effects like picture slider effect. Include radio buttons and map it according to the picture.

Program:

!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>

**Question 12:**

**Create a web page, add more elements, and that should be organized internally by using Cascading Style Sheets (CSS) for internal style sheets.**

**Program:**

<!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>

**Question 13:**

**Write an HTML program by including CSS files to use inline and internal style sheets**

**Program:**

<!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>

**Question 14:**

**Create a HTML web page, change the position of the element absolute to get two elements over each other using absolute positioning with a CSS file**

**Program:**

<!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>

**Question 15**

**Add a background picture to a web page and write a HTML program for background-repeat using CSS**

**Program:**

<!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>

**Question 16:**

**Write a Java servlet page for getting the details of employees and display the same.**

**Procedure:**

Create an HTML form to submit employee data.

Write a servlet to process and display the data.

**Program (HTML form )**22

<!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>

**Program (Servlet):**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class EmployeeServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

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

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

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

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

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

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

out.println("Department: " + dept + "<br>");

out.println("Employee ID: " + id + "<br>");

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

}

}

**Question 17:**

**Create a web page to prepare the mark list to display the marks scored by the students in their class test by using HTML table property.**

**Program:**

<!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>

**Question 18:**

**All HTML elements occupying a rectangular area are called a box. The box may be in the screen or other visual output medium. Every box contains a nested collection of rectangular subareas. Write a HTML program for box model.**

**Procedure:**

Create a HTML file.

Apply margin, padding, border, and content styling using CSS.

**Program:**

<!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>

**Question 19:**

Create a Job Portal web page using various HTML elements and organize every HTML document with help of CSS elements.

**Program:**

<!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>

**Question 20:**

**Write the HTML program to add emojis with fixed size and also identify the best positioning elements which are available in CSS.**

**Procedure:**

Insert emojis as text in HTML.

Use CSS for sizing and positioning.

**Program:**

<!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>

**Question 21:**

**Write a HTML program to divide the web page into various frames using frameset tag instead of body tag.**

**Program:**

<!DOCTYPE html>

<html>

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

<frame src="left.html">

<frame src="right.html">

</frameset>

</html>

**Question 22:**

Create a web page to embed the multimedia element with audio and video controls on it.

**Program:**

<!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>

**Question 23:**

**Create a Servlet program to display confirmed dishes which are selected by the user in hotel management**.

**Program (HTML):**

<!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>

**Program (Servlet):**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class DishServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String[] dishes = request.getParameterValues("dish");

out.println("<h2>Confirmed Dishes:</h2>");

for (String dish : dishes) {

out.println(dish + "<br>");

}29

}

}

**Question 24:**

Write a program using JavaScript and display the date and time object on the HTML document.

.

**Program:**

<!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>

**Question 25:**

**Write a program using the string object in the HTML document, which includes: (1) Returning the character at a specified location (2) Returns the unicode of the character at the specified index (3) Joins two or more strings and returns a new joined string (4)**

**Converts unicode value to string (5) Converts a string to uppercase letters.**

**Program:**

<!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>

.

**Question 26:**

Write an HTML program to add a background-image property using URL and style tag using

external type of CSS.

**Program (HTML):**

<!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;

}

**Question 27:**

**Create a JSP program to count the number of clients viewed on your website.**

**Program:**

<%@ 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>

**Question 28:**

**Create a registration form for student database management and display the collected document by using servlet program.**

**Program (HTML):**

<!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);

}

}

**Question 29:**

**Write an HTML program to add a background-image property using URL and style tag using internal type of CSS.**

**Program:**

<!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>

**Question 30:**

**Create a registration form for employee database management and display the collected document by using the JSP program.**

**Program (HTML):**

<!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 %>

**Question 31:**

**Using Javascript, write a program to find the current Date and time of your system.**

**Program:**

<!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>34

**Question 32:**

**Create a web page, display the html element with more animated effects.**

**Program:**

<!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>

**Question 33:**

**Create a student’s form registration for job portal and validate using internal Java Script.**

**Program:**

<!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>

**Output:**

• Displays alert if fields are empty.

**Question 34:**

**To store multiple data items in a single variable we use a list. Describe the list of items which we use during the time of travel. Implement it in both**

**Program:**

<!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>

**Question 35:**

**Create a HTML web page, change the position of the element relative to the parent element and relative to itself using relative positioning with a CSS file. Also display the same elements with absolute positioning with difference.**

**Program:**

<!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;

}

**Question 36:**

CREATING A WEB PAGE USING IMAGE MAP DATE :

**PROGRAM:**37

home.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>

**EX.NO: 37 CREATING A WEBPAGE WITH CASCADING STYLE**

**SHEET DATE :**

PROGRAM:

<! 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>

.

**EX.NO :38 CLIENT SIDE SCRIPTS for validating web form control using DHTML DATE:**

PROGRAM:

//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>

**OUTPUT:**4950

RESULT :

Thus developing client side scripts for validating web from

controls usingDHTML has been verified.51

**EX.NO :38 INSTALLING & CONFIGURING TOMCAT - WEBSERVER**

**DATE:**

**AIM:**

**PROCEDURE:**

INSTALLING & CONFIGURING TOMCAT WEBSERVER

**Step 1:** Visit Apache Tomcat home page with a Web browser, and click the "Download"

link under the "Tomcat 7.0.70 Released" section. You will see the"Tomcat 7

Downloads"

page.

**Step 2:** Click "32-bit Windows zip" link under "Binary Distributions" section. Youwill see

the download file save dialog box.(this supports jdk1.6 kit)

**Step 3:** Use the "Save file" option to save the download file

"apache-tomcat-7.0.70-windows-x86.zip" to a temporary folder.

**Step 4:** Unzip "apache-tomcat-7.0.70-windows-x86.zip" to file installation

folder“C:\ apache-tomcat-7.0.70”.

**Step 5:** Try to start Tomcat server by running the "startup" command in

acommand linewindow:

C:\ >cd apache-tomcat-7.0.70\bin

C:\ >cd apache-tomcat-7.0.70\bin>startup

The CATALINA\_HOME environment variable is not defined correctlyThis

environment variable is needed to run this program

**Step 6:** To fix the missing environment variables, CATALINA\_HOME,JAVA\_HOME &

JRE\_HOME,

● Click my computer->right click properties->Select Advance SystemSetting

● In this tab, Click Environment variable

● Click new in User variables for admin

● Enter variable name & Variable value

▪ CATALINA\_HOME

C:\apache-tomcat-7.0.70

▪ JAVA\_HOME

C:\Program Files\Java\

▪ JRE\_HOME

C:\Program Files\Java\jre7

**Step 7:** Configuring Tomcat

Open “C:\apache-tomcat-7.0.70\conf”

Folder It consist of the following xml

files

Server.xml

Web.xml

Tomcat

user.xml

Context.xm

l

Open web.xml in notepad & modify default-listings-false to true

Open server.xml & change port number 8080 to any other (8081) if any

application access thesame port Open context.xml change reloadable

attribute to true on figurationprocedure varies according to the version52

**Step 8:** Try to start Tomcat server by running the "startup" command in a

command Line window:

**OUTPUT:**

RESULT:

Thus the Tomcat server is installed and configured successfully53

**EX.NO : 39 A INVOKING SERVLET FROM HTML FORMS**

**DATE:**

**AIM:**

To write a html program for invoking servlet using html.

ALGORITHM:

**Step1:** In html program, define the html, head and title tag.

**Step2:** Then the title is Student Information Form and close the title and head tag.

**Step3:** Define the body tag inside the body tag create form

and table simultaneously.

**Step4:** The table consists of following information Roll no, Student

name, Address, Phone no and total marks.

**Step5:** In the servlet program, import the summary package and

create a ownservlet class extends with generic servlet.

**Step6:** In the service method defined to request and

response. **Step7:** Create the object and for print writer and

get writer()value. **Step8:** The enumeration object get the

servlet request parameter.

**Step9:** Create objects for string method and it is displayed another

object valuereceived get parameter of name received and

displayed the value received value.

PROGRAM:

//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";

}

}

**EX.NO : 39 B**

**SESSION TRACKING DATE:**

**PROGRAM:**

import 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>");

}

}

File: web.xml

• XML

*Compile the servlet SessionTrack described above and add it to the web.xml file. When you*

*run* ***http://localhost:8080/SessionTrackingGfg/GfgSession*** *for the first time, you*

*should get the following result:*

EX.NO : 40 A

ONLINE EXAMINATION

DATE:

PROGRAM:

//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";

}

}

**X.NO : 40 B**

DISPLAYING STUDENT MARKLIST USING JSP

DATE:

<%@ 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>

student mark list using JSP and database has been verifiedsuccessfully.69

**EX.NO : 41**

**XML SCHEMA FOR STUDENT DETAILS DATE:**

.

**PROGRAM:**

//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)>