QUESTION 1:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<meta name="description" content="This is a demo web page showing header tag usage.">

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

<title>My Demo Web Page</title>

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

<script src="script.js"></script>

<style>

body {

background-color: #f2f2f2;

}

</style>

</head>

<body>

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

<p>This page demonstrates usage of various tags in the header.</p>

<footer>

<p>&copy; 2025 My Website</p>

</footer>

</body>

</html>

**QUESTION 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>

**QUESTION 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;

}

QUESTION 4:

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("

"); out.println("

**Student Registration Form**

"); out.println("

Top of Form

"); out.println("Name:   
  
"); out.println("Registration Number:   
  
"); out.println("Course:   
  
"); out.println("Email:   
  
"); out.println(""); out.println("

Bottom of Form

"); out.println("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>");

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} 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>");

}

}

}

"); 7 } else { out.println("

"); out.println("

**Student Registration Details**

"); out.println("

**Name:** " + name + "

"); out.println("

**Registration Number:** " + regno + "

"); out.println("

**Course:** " + course + "

"); out.println("

**Email:** " + email + "

"); out.println("

"); } } }

QUESTION 5:

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>

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<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 {

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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;

QUESTION 6:

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;

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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;

}

QUESTION 7:

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>

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<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;

}

QUESTION 8:

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>

QUESTION 9:

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>

QUESTION 10:

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>

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<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>

QUESTION 11:

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;

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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:

<!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">

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</body>

</html>

QUESTION 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>

QUESTION 14:

v

<!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:

<!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:

<!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>

QUESTION – 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>

QUESTION 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>

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</html>

QUESTION – 20:

!DOCTYPE html>

<html>

<head>

<title>Emoji Positioning</title>

<style>

.emoji {

font-size: 48px;

position: absolute;

top: 100px;

left: 100px;

}

</style>

</head>

<body>