# EX.NO: 1 Design a webpage for your college containing descriptions of courses, departments, faculties, library, etc

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Adhiyamaan College of Engineering</title>
  <style>
    body {
       font-family: Arial, sans-serif;
       margin: 0;
       padding: 0;
       background-color: #f4f4f4;
       color: #333;
    header {
       background-color: #4CAF50;
       color: #fff;
       padding: 1.5rem;
       text-align: center;
       box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
    header h1 {
       margin: 0;
       font-size: 2.5rem;
    nav ul {
       list-style: none;
       padding: 0;
       margin: 1rem 0 0;
       display: flex;
       justify-content: center;
       gap: 2rem;
    nav ul li {
       display: inline;
    }
    nav ul li a {
       color: #fff;
       text-decoration: none;
       font-size: 1.1rem;
       transition: color 0.3s ease;
    nav ul li a:hover {
       color: #ddd;
    }
    main {
       padding: 3rem 2rem;
```

```
max-width: 1200px;
    margin: 0 auto;
  section {
    margin-bottom: 3rem;
  h2 {
    font-size: 2rem;
    color: #4CAF50;
    margin-bottom: 1.5rem;
  ul {
    list-style-type: disc;
    padding-left: 20px;
  section#library p {
    font-size: 1.1rem;
    line-height: 1.6;
    color: #555;
  footer {
    background-color: #4CAF50;
    color: #fff;
    padding: 2rem 1rem;
    text-align: center;
  footer h2 {
    font-size: 1.8rem;
  footer p {
    font-size: 1rem;
    margin: 0.5rem 0;
  footer p:last-of-type {
    margin-bottom: 0;
    media (max-width: 768px) {
    header h1 {
       font-size: 2rem;
    nav ul {
       flex-direction: column;
       gap: 1rem;
    nav ul li a {
       font-size: 1rem;
    main {
       padding: 2rem 1rem;
</style>
```

```
</head>
<body>
 <header>
   <h1>Welcome to Adhiyamaan College of Engineering</h1>
   <nav>
     <a href="#courses">Courses</a>
       a href="#faculty">Faculty</a>
       <a href="#library">Library</a>
       a href="#contact">Contact</a>
     </nav>
 </header>
 <main>
   <section id="courses">
     <h2>Courses Offered</h2>
     <ul>
       Si>B.E Computer Science
       B.E ECE
       B.Tech IT
       B.E Civil
     </section>
   <section id="faculty">
     <h2>Our Faculty</h2>
      <ul>
       Dr. A. Kumar - Computer Science
       Sharma - ECE
       Dr. C. Rao - IT
       Dr. D. Singh - Civil
     </section>
   <section id="library">
     <h2>Library</h2>
      Our library offers a vast collection of books, journals, and digital resources, providing
extensive support for both learning and research.
   </section>
 </main>
 <footer>
   <section id="contact">
     <h2>Contact Us</h2>
      Email: info@adhiyamaan.edu
      Phone: +91 12345 67890
   </section>
 </footer>
</body>
</html>
```

# EX.NO: 2 Create a webpage and use inline, embedded, and external CSS to style various elements. Experiment with CSS3 features like background images, border images, colors, and shadows.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Styled Webpage</title>
  link rel="stylesheet" href="styles.css"> <!-- External CSS link -->
  <style>
    /* Embedded CSS */
    body {
       font-family: Arial, sans-serif;
       background-color: #f4f4f4;
       text-align: center;
    header {
       background-color: #333;
       color: #fff;
       padding: 1.5rem 0;
       text-align: center;
       box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
    nav ul {
       list-style: none;
       padding: 0;
       margin: 0;
    nav ul li {
       display: inline;
       margin: 0 1.5rem;
    nav ul li a {
       color: #fff;
       text-decoration: none;
       font-size: 1.2rem;
       transition: color 0.3s ease;
    nav ul li a:hover {
       color: #ff6347;
    main {
       padding: 3rem;
       background: rgba(255, 255, 255, 0.8);
       max-width: 900px;
       margin: 2rem auto;
       border-radius: 8px;
       box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
```

```
}
    section {
      margin-bottom: 2rem;
    h2 {
      color: #333;
      font-size: 1.8rem;
      margin-bottom: 1rem;
    p {
       font-size: 1.1rem;
      line-height: 1.6;
      color: #555;
    footer {
      background-color: #333;
      color: #fff;
      text-align: center;
      padding: 1.5rem 0;
      margin-top: 2rem;
      box-shadow: 0 -4px 8px rgba(0, 0, 0, 0.1);
    footer p {
      margin: 0;
      font-size: 1rem;
  </style>
</head>
<br/><body style="background-image: url('https://images.pexels.com/photos/255379/pexels-photo-
255379.jpeg?cs=srgb&dl=pexels-padrinan-255379.jpg&fm=jpg'); background-size: cover;
background-position: center; padding: 20px;">
  <header>
    <h1 style="color: #ff6347; font-size: 2.5rem;">Welcome to the Styled Webpage</h1>
    <nav>
       <a href="#section1">Section 1</a>
         <a href="#section2">Section 2</a>
         <a href="#section3">Section 3</a>
      </nav>
  </header>
  <main>
    <div style="border: 3px solid black; padding: 2rem; border-radius: 10px;">
       <section id="section1">
         <h2>Section 1</h2>
         This section uses a background image and inline CSS for padding.
       </section>
       <section id="section2">
         <h2>Section 2</h2>
         This section is styled using embedded CSS.
       </section>
       <section id="section3">
```

```
<h2>Section 3</h2>
This section is styled using external CSS.
</section>
</div>
</main>
<footer>
Footer content here
</footr>
</body>
</html>
```

# EX.NO: 3 Create a student registration form for job applications and validate the form fields using JavaScript.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Registration Form</title>
  <style>
    body {
       font-family: 'Roboto', sans-serif;
       background-color: #f0f2f5;
       margin: 0;
       padding: 0;
       display: flex;
       justify-content: center;
       align-items: center;
       height: 100vh;
     .container {
       max-width: 500px;
       width: 100%;
       margin: 20px;
       padding: 25px;
       background-color: #fff;
       border-radius: 15px;
       box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);
       transition: box-shadow 0.3s ease;
     .container:hover {
       box-shadow: 0 12px 30px rgba(0, 0, 0, 0.2);
    h2 {
       text-align: center;
       color: #333;
       font-size: 1.8rem;
       margin-bottom: 20px;
     .form-group {
       margin-bottom: 20px;
       position: relative;
     .form-group label {
       display: block;
       margin-bottom: 8px;
       font-size: 1.1rem;
       color: #555;
```

```
.form-group input {
    width: 100%;
    padding: 12px;
    padding-left: 20px;
    font-size: 1rem;
    color: #333;
    border: 1px solid #ddd;
    border-radius: 25px;
    box-sizing: border-box;
    outline: none;
    transition: border 0.3s ease;
  .form-group input:focus {
    border: 1px solid #007BFF;
  .form-group button {
    width: 100%;
    padding: 12px;
    font-size: 1.1rem;
    background: linear-gradient(45deg, #007BFF, #00D4FF);
    color: white;
    border: none;
    border-radius: 25px;
    cursor: pointer;
    box-shadow: 0 6px 10px rgba(0, 123, 255, 0.1);
    transition: background 0.3s ease, box-shadow 0.3s ease;
  .form-group button:hover {
    background: linear-gradient(45deg, #0056b3, #00aaff);
    box-shadow: 0 8px 20px rgba(0, 123, 255, 0.2);
  }
  .error {
    color: red;
    font-size: 0.9em;
    margin-top: 5px;
  /* Responsive design */
    media (max-width: 600px) {
    .container {
       padding: 20px;
    h2 {
       font-size: 1.6rem;
    .form-group input,
    .form-group button {
       font-size: 0.95rem;
       padding: 10px;
</style>
```

```
</head>
<body>
  <div class="container">
    <h2>Student Registration Form</h2>
    <form id="registrationForm">
       <div class="form-group">
         <label for="name">Name:</label>
         <input type="text" id="name" name="name" placeholder="Enter your name">
         <div class="error" id="nameError"></div>
       </div>
       <div class="form-group">
         <label for="email">Email:</label>
         <input type="email" id="email" name="email" placeholder="Enter your email">
         <div class="error" id="emailError"></div>
       </div>
       <div class="form-group">
         <label for="phone">Phone:</label>
         <input type="text" id="phone" name="phone" placeholder="Enter your phone
number">
         <div class="error" id="phoneError"></div>
       </div>
       <div class="form-group">
         <label for="course">Course:</label>
         <input type="text" id="course" name="course" placeholder="Enter the course">
         <div class="error" id="courseError"></div>
       </div>
       <div class="form-group">
         <button type="button" onclick="validateForm()">Submit</button>
    </form>
  </div>
  <script>
     function validateForm() {
       let is Valid = true;
       // Clear previous errors
       document.getElementById('nameError').innerText = ";
       document.getElementById('emailError').innerText = ";
       document.getElementById('phoneError').innerText = ";
       document.getElementById('courseError').innerText = ";
       // Validate Name
       const name = document.getElementById('name').value;
       if (name === ") {
         document.getElementById('nameError').innerText = 'Name is required';
         isValid = false;
       // Validate Email
       const email = document.getElementById('email').value;
       const emailPattern = /^[^]+@[^]+\.[a-z]{2,3}$/;
       if (email === ") {
```

```
document.getElementById('emailError').innerText = 'Email is required';
         isValid = false;
       } else if (!email.match(emailPattern)) {
          document.getElementById('emailError').innerText = 'Invalid email format';
         isValid = false;
       // Validate Phone
       const phone = document.getElementById('phone').value;
       const phonePattern = /^[0-9]\{10\}$/;
       if (phone === ") {
          document.getElementById('phoneError').innerText = 'Phone number is required';
         isValid = false;
       } else if (!phone.match(phonePattern)) {
         document.getElementById('phoneError').innerText = 'Invalid phone number format';
         isValid = false;
       // Validate Course
       const course = document.getElementById('course').value;
       if (course === ") {
          document.getElementById('courseError').innerText = 'Course is required';
          isValid = false;
       if (isValid) {
         alert('Form submitted successfully!');
  </script>
</body>
</html>
```

### EX.NO: 4 Create a quiz program with adaptive questions along with statistical variations using JavaScript

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Adaptive Quiz</title>
  <style>
     body { display: flex; justify-content: center; align-items: center; height: 100vh;
font-family: Arial; background: #f4f4f9; }
     .container { background: white; padding: 20px; text-align: center; border-radius:
8px; width: 300px; box-shadow: 0 0 10px rgba(0,0,0,0.1); }
     button { width: 100%; padding: 10px; margin: 5px 0; background-color: #5c67f2;
color: white; border: none; border-radius: 5px; cursor: pointer; }
     .progress-bar { background: #ccc; height: 20px; border-radius: 5px; overflow:
hidden; margin-top: 10px; }
     .progress { background: #4CAF50; height: 100%; width: 0; transition: width 0.5s;
color: white; text-align: center; }
  </style>
</head>
<body>
  <div class="container">
     <h2 id="question"></h2>
     <div id="choices"></div>
     <button id="next" style="display:none" onclick="next()">Next</button>
     <div id="result" style="display:none">
       <h2>Statistics</h2>
       <div class="progress-bar"></div>div id="progress" class="progress"></div></div>
       </div>
  </div>
  <script>
       easy: [{q: "2 + 2?", c: ["3", "4"], a: 1}, {q: "Capital of France?", c: ["Paris",
"London"], a: 0}],
       medium: [{q: "5 * 6?", c: ["30", "31"], a: 0}, {q: "1984' author?", c: ["Orwell",
"Huxley"], a: 0}],
       hard: [\{q: \sqrt{144?}, c: ["12", "13"], a: 0\}, \{q: "Derivative of x^2?", c: ["x", "2x"], a: 0\}
a: 1}]
     };
    let difficulty = "medium", idx = 0, score = 0, total = 0, difficultyScore = 0;
```

```
function load() {
       const current = qs[difficulty][idx];
       document.getElementById("question").textContent = current.q;
       document.getElementById("choices").innerHTML = current.c.map((choice, i)
          `<button onclick="check(${i})">${choice}</button>`).join(");
       document.getElementById("next").style.display = "none";
    function check(i) {
       const current = qs[difficulty][idx];
       if (i === current.a) {
         score++;
         difficulty = difficulty === "easy" ? "medium" : "hard";
         difficulty = difficulty === "hard" ? "medium" : "easy";
       difficultyScore += difficulty === "easy" ? 1 : difficulty === "medium" ? 2 : 3;
       total++;
       document.getElementById("next").style.display = "block";
     function next() {
       idx++;
       if (idx \ge qs[difficulty].length) showResults();
       else load();
     function showResults() {
       document.querySelector(".container").innerHTML = `
          <h2>Statistics</h2>
         Your score: ${score} / ${total} (${(score / total) * 100}%)
         <div class="progress-bar"><div class="progress" style="width:${(score /</pre>
total) * 100}%">${(score / total) * 100}%</div></div>
         Average Difficulty: ${(difficultyScore / total).toFixed(2)}
    load();
  </script>
</body>
</html>
```

### EX.NO: 5 Design a JSP to insert the details of the users who register through the registration page and store the details in to the database.

```
HTML:
  <!DOCTYPE html>
  <html>
  <head>
     <title>Registration Page</title>
  </head>
  <body>
    <h2>User Registration Form</h2>
    <form action="registerAction.jsp" method="post">
       <label for="username">Username:</label>
       <input type="text" name="username" required><br><br>
       <label for="email">Email:</label>
       <input type="email" name="email" required><br><br>
       <label for="password">Password:</label>
       <input type="password" name="password" required><br><br>
       <input type="submit" value="Register">
    </form>
  </body>
  </html>
JSP:
  <%@ page import="java.sql.*" %>
  <%@ page import="java.io.*" %>
  <%
    // Fetching form data
    String username = request.getParameter("username");
    String email = request.getParameter("email");
    String password = request.getParameter("password");
    // Database connection setup
    String url = "jdbc:mysql://localhost:3306/UserDB"; // Adjust to your MySQL URL
  and port
    String dbUsername = "root"; // Your MySQL root username
    String dbPassword = ""; // Your MySQL password
    Connection conn = null;
    PreparedStatement pstmt = null;
    try {
       // Load MySQL JDBC driver
```

```
Class.forName("com.mysql.cj.jdbc.Driver");
       // Establish connection to MySQL database
       conn = DriverManager.getConnection(url, dbUsername, dbPassword);
       // SQL query to insert user details
       String query = "INSERT INTO Users (username, email, password) VALUES (?, ?,
  ?)";
       // Create prepared statement
       pstmt = conn.prepareStatement(query);
       pstmt.setString(1, username);
       pstmt.setString(2, email);
       pstmt.setString(3, password);
       // Execute the update
       int result = pstmt.executeUpdate();
       // Confirmation message
       if (result > 0) {
         out.println("<h3>Registration successful! Welcome, " + username + ".</h3>");
       } else {
         out.println("<h3>Registration failed. Please try again.</h3>");
     } catch (Exception e) {
       out.println("<h3>Error: " + e.getMessage() + "</h3>");
     } finally {
       // Close the database connection
       try {
         if (pstmt != null) pstmt.close();
         if (conn != null) conn.close();
       } catch (SQLException e) {
         e.printStackTrace();
  %>
MYSQL:
  CREATE DATABASE UserDB;
  USE UserDB;
  CREATE TABLE Users (
     id INT AUTO INCREMENT PRIMARY KEY,
     username VARCHAR(50) NOT NULL,
     email VARCHAR(100) NOT NULL,
     password VARCHAR(50) NOT NULL
  );
```

#### **EX.NO: 6** Implement Event Handling in the web pages.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Event Handling Example</title>
  <style>
    body {
       font-family: Arial, sans-serif;
       display: flex;
       flex-direction: column;
       align-items: center;
       justify-content: center;
       height: 100vh;
       background-color: #f4f4f9;
     .container {
       text-align: center;
    .btn {
       padding: 10px 20px;
       background-color: #5c67f2;
       color: white;
       border: none;
       border-radius: 5px;
       cursor: pointer;
       transition: background-color 0.2s;
    .btn:hover {
       background-color: #7a85ff;
    form {
       margin-top: 20px;
    input[type="text"] {
       padding: 10px;
       margin: 10px 0;
       border: 1px solid #ccc;
       border-radius: 5px;
    input[type="submit"] {
       padding: 10px 20px;
       background-color: #4CAF50;
       color: white;
       border: none;
       border-radius: 5px;
       cursor: pointer;
```

```
input[type="submit"]:hover {
      background-color: #45a049;
  </style>
</head>
<body>
  <div class="container">
    <h1>Event Handling Example</h1>
    <button class="btn" id="colorButton">Click Me!</button>
    <form id="myForm">
       <input type="text" id="name" name="name" placeholder="Enter your name">
       <input type="submit" value="Submit">
    </form>
  </div>
  <script>
    document.getElementById("colorButton").addEventListener("click", function() {
       this.style.backgroundColor = this.style.backgroundColor === "red" ? "#5c67f2" :
"red";
    });
    document.getElementById("myForm").addEventListener("submit", function(event) {
       event.preventDefault();
       alert("Form submitted by " + document.getElementById("name").value);
    });
  </script>
</body>
</html>
```

### EX.NO: 7 Create a simple widget (e.g., weather, stock ticker) using JSON data fetched from an API.

```
HTML:
  <!DOCTYPE html>
  <html lang="en">
  <head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Weather Widget</title>
  <link rel="stylesheet" href="style.css">
  </head>
  <body>
  <div class="weather-widget">
  <h2>Weather in Your City</h2>
  <input type="text" id="city-input" placeholder="Enter city name">
  <button id="fetch-weather">Get Weather
  <div id="weather-info">
  <h3 id="city-name"></h3>
  </div>
  </div>
  <script src="script.js"></script>
  </body>
  </html>
CSS:
  body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  display: flex;
 justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
.weather-widget {
  text-align: center;
  background-color: #87ceeb;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0 5px 10px rgba(0, 0, 0, 0.1);
  width: 300px;
#city-input {
  padding: 10px;
  width: 80%;
  margin-bottom: 10px;
  border: none;
```

```
border-radius: 5px;
#fetch-weather {
  padding: 10px 20px;
  background-color: #4CAF50;
  color: white;
  border: none:
  border-radius: 5px;
  cursor: pointer;
#weather-info {
  margin-top: 20px;
#temperature, #description {
  font-size: 18px;
  margin: 5px 0;
JAVA SCRIPT:
document.getElementById("fetch-weather").addEventListener("click", function() {
  const city = document.getElementById("city-input").value;
  if (city) {
     fetchWeather(city);
});
function fetchWeather(city) {
  const apiKey = '961a55ab7ed2af2bf001c2eaa2b82e17'; // Your actual API key
  const apiUrl =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}&units=metri
c`;
  fetch(apiUrl)
     .then(response => response.json())
     .then(data => {
       // Log the entire API response to see its structure
       console.log(data);
       if (data.cod === 200) { // Make sure the API call is successful
         document.getElementById("city-name").innerText = 'City: ${data.name}';
         document.getElementById("temperature").innerText = `Temperature:
${data.main.temp}°C';
         document.getElementById("description").innerText = `Weather:
${data.weather[0].description}`;
       } else {
         alert('City not found or invalid response!');
     })
     .catch(error => {
       console.error('Error fetching weather data:', error);
     });
```

### EX.NO: 8 JDBC connectivity to retrieve bank customers' transaction details.

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class Main {
  public static void main(String[] args) {
    // Database connection details
    String jdbcURL = "jdbc:mysql://localhost:3306/bank";
    String dbUser = "root"; // Default MySQL user in XAMPP
    String dbPassword = ""; // Default password is empty for XAMPP MySQL
    try {
       // 1. Load the MySQL JDBC Driver
       Class.forName("com.mysql.cj.jdbc.Driver");
       // 2. Establish the connection
       Connection connection = DriverManager.getConnection(jdbcURL, dbUser, dbPassword);
       // 3. Create a statement
       Statement statement = connection.createStatement();
       // 4. Query to get customer transactions
       String query = "SELECT * FROM transactions WHERE customer id = 101";
       // 5. Execute the query
       ResultSet resultSet = statement.executeQuery(query);
       // 6. Process the result set
       System.out.println("Transaction Details for Customer ID 101:");
       while (resultSet.next()) {
         int id = resultSet.getInt("id");
         int customerId = resultSet.getInt("customer id");
         double transactionAmount = resultSet.getDouble("transaction amount");
         String transactionDate = resultSet.getString("transaction date");
         String description = resultSet.getString("description");
         System.out.println("ID: " + id + ", Customer ID: " + customerId + ", Amount: " +
transactionAmount +
              ", Date: " + transactionDate + ", Description: " + description);
       // 7. Close the connection
       connection.close();
     } catch (Exception e) {
       e.printStackTrace();
```

### EX.NO: 9 Develop a PHP program to validate the fields of the Registration page

```
<?php
// PHP code remains unchanged from the previous example
// Initialize variables to store error messages and form inputs
$usernameErr = $emailErr = $passwordErr = $phoneErr = "";
$username = $email = $password = $phone = "";
// Check if the form is submitted
if ($ SERVER["REQUEST METHOD"] == "POST") {
       // Validate Username
       if (empty($ POST["username"])) {
              $usernameErr = "Username is required";
       } else {
              $username = test input($ POST["username"]);
             if (!preg_match("/^[a-zA-Z-']*$/", $username)) {
                    $usernameErr = "Only letters and spaces allowed";
              }
       // Validate Email
       if (empty($ POST["email"])) {
              $emailErr = "Email is required";
       } else {
              $email = test input($ POST["email"]);
             if (!filter var($email, FILTER VALIDATE EMAIL)) {
                    $emailErr = "Invalid email format";
              }
       // Validate Password
       if (empty($_POST["password"])) {
              $passwordErr = "Password is required";
       } else {
              $password = test input($ POST["password"]);
             if (strlen(password) \le 8 \parallel preg_match("/[a-z]/i", password) \parallel preg_match("/[0-9]/", password) \parallel preg_match
$password)) {
                    $passwordErr = "Password must be at least 8 characters long, contain one letter and
one number";
       // Validate Phone
       if (empty($ POST["phone"])) {
              $phoneErr = "Phone number is required";
              $phone = test input($ POST["phone"]);
             if (!preg match("/^[0-9]{10}$/", $phone)) {
                    $phoneErr = "Invalid phone number. Must be 10 digits.";
```

```
}
  // If no errors, proceed to database insertion
  if (empty($usernameErr) && empty($emailErr) && empty($passwordErr) &&
empty($phoneErr)) {
    // Database connection
    $servername = "localhost";
    $username db = "root"; // Default XAMPP MySQL username
    $password db = ""; // Leave empty for default
    $dbname = "user_registration";
    // Create connection
    $conn = new mysqli($servername, $username db, $password db, $dbname);
    // Check connection
    if ($conn->connect error) {
       die("Connection failed: " . $conn->connect_error);
    }
    // Hash the password before saving it
    $hashed password = password hash($password, PASSWORD DEFAULT);
    // Insert data into the database
    $sql = "INSERT INTO users (username, email, password, phone) VALUES
('$username', '$email', '$hashed password', '$phone')";
    if (sconn-squery(sql) === TRUE) 
       echo "New record created successfully";
    } else {
       echo "Error: " . $sql . "<br/>br>" . $conn->error . "";
    $conn->close();
// Function to sanitize user input
function test_input($data) {
  data = trim(data);
  $data = stripslashes($data);
  $data = htmlspecialchars($data);
  return $data;
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
  <style>
```

```
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f9;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
.container {
  background-color: #ffffff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 500px;
h2 {
  text-align: center;
  color: #333;
}
form {
  display: flex;
  flex-direction: column;
label {
  margin-bottom: 8px;
  font-weight: bold;
  color: #333;
input[type="text"],
input[type="password"] {
  padding: 10px;
  margin-bottom: 12px;
  border: 1px solid #ddd;
  border-radius: 4px;
  font-size: 16px;
input[type="submit"] {
  padding: 10px;
  background-color: #007bff;
  border: none;
  border-radius: 4px;
  color: white;
  font-size: 16px;
  cursor: pointer;
  transition: background-color 0.3s;
```

```
input[type="submit"]:hover {
       background-color: #0056b3;
    .error-message {
       color: #e74c3c;
       font-size: 14px;
       margin: 10px 0;
    .success-message {
       color: #2ecc71;
       font-size: 14px;
       margin: 10px 0;
  </style>
</head>
<body>
<div class="container">
  <h2>Registration Form</h2>
  <form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" value="<?php echo $username;</pre>
?>">
    <span class="error-message"><?php echo $usernameErr; ?></span>
    <label for="email">Email:</label>
    <input type="text" id="email" name="email" value="<?php echo $email; ?>">
    <span class="error-message"><?php echo $emailErr; ?></span>
    <label for="password">Password:</label>
    <input type="password" id="password" name="password" value="<?php echo</pre>
$password; ?>">
    <span class="error-message"><?php echo $passwordErr; ?></span>
    <label for="phone">Phone:</label>
    <input type="text" id="phone" name="phone" value="<?php echo $phone; ?>">
    <span class="error-message"><?php echo $phoneErr; ?></span>
    <input type="submit" name="submit" value="Register">
  </form>
</div>
</body>
</html>
```