WEB TECHNOLOGIES LAB

(Course Code: 22UPCSC1C17)

A programming laboratory record submitted to Periyar University, Salem

In partial fulfillment of the requirements for the degree of

MASTER OF COMPUTER APPLICATIONS

By

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DEPARTMENT OF COMPUTER SCIENCE

PERIYAR UNIVERSITY

(NAAC `A++` Grade with CGPA 3.61) – NIRF RANK 59 – ARIIA RANK 10

PERIYAR PALKALAI NAGAR,

SALEM – 636 011.

(NOVEMBER - 2023)

CERTIFICATE

       This is to certify that the Programming Laboratory entitled **"WEB TECHNOLOGIES LAB (22UPCSC1C17)"** is a bonafide record work done by Mr. /Ms. _____

Register No: _____ as partial fulfillment of the requirements for the degree of Master of Computer Applications, in the Department of Computer Science, Periyar University, Salem, during the Academic Year 2023-2024.

Staff In-charge   Head of the Department

Submitted for the practical examination held on……...………………

Internal Examiner   External Examiner

CONTENT

S.NO	DATE	TITLE OF THE PROGRAM	PAGE NO	SIGNATURE
1.		Develop a web page to display your education details in a tabular format		
2.		Develop a web page to display your CV on a web page		
3.		Design a Homepage having three links: About Us, Our Services and Contact Us. Create separate web pages for the three links		
4.		Design a web page to demonstrate the usage of inline CSS, internal CSS and external CSS		
5.		Design an XML document and create a style sheet in CSS & display the document in the browser		
6.		Develop a web page to Create image maps		
7.		Design a web page to perform input validation using Angular JavaScript		
8.		Develop a web page in PHP to fetch details from the database		
9.		Design a web page to hide paragraph using jQuery		
10.		Create a web page and add JavaScript to handle mouse events and form Events		

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Education Deatils</title>
    <style>
        table{
           border-collapse:collapse;
           width:100%;
        }
        th,td{
           padding:8px;
           text-align:left;
           border-bottom: 1px solid #ddd;
        }
        th{
           background-color:grey;
        }
        h1{
           text-align:center;
        }
     </style>
  </head>
  <body>
     <h1>Education Deatils</h1>
    <table>
    <tr>
        <th>S.No</th>
        <th>Degree/School</th>
        <th>University/College</th>
        <th>Year</th>
    </tr>
    <tr>
       <td>1.</td>
       <td>MCA</td>
       <td>Periyar University</td>
       <td>2022 - Present</td>
    </tr>
    <tr>
```

```
            <td>2.</td>
            <td>BSc CS</td>
            <td>Vysya College</td>
            <td>2019 - 2022</td>
        </tr>
        </table>
    </body>
</html>
```

OUTPUT:

Education Deatils			
S.No	Degree/School	University/College	Year
1.	MCA	Periyar University	2022 - Present
2.	BSc CS	Vysya College	2019 - 2022

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
<head>
  <title>Elan - Curriculum Vitae</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f2f2f2;
      margin: 0;
      padding: 0;
    }
    header {
      background-color: #333;
      color: #fff;
      text-align: center;
      padding: 20px;
    }
    .container {
      max-width: 800px;
      margin: 20px auto;
      padding: 20px;
      background-color: #fff;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    section {
      margin-bottom: 20px;
    }
    ul {
      list-style: none;
      padding: 0;
    }
    li::before {
      content: '\2022';
      display: inline-block;
      width: 1em;
      margin-left: 2em;
    }
  </style>
```

```html
  </head>
  <body>
    <header>
      <h1>Elanchezhian Muthukumar</h1>
      <p>Curriculum Vitae</p>
    </header>

    <div class="container">
      <section>
        <h2>Contact Information</h2>
        <p>Email: elan@email.com</p>
        <p>Phone: (123) 456-7890</p>
        <p>Website: www.yourwebsite.com</p>
      </section>

      <section>
        <h2>Education</h2>
        <ul>
          <li><strong>MCA:</strong> Periyar University, 2024</li>
        </ul>
      </section>

      <section>
        <h2>Experience</h2>
        <ul>
          <li><strong>Full Stack Developer</strong> at Elan Innovatix Labs</li>
        </ul>
      </section>

      <section>
        <h2>Skills</h2>
        <p>Python, Java, Web Development, and AWS</p>
      </section>
    </div>
  </body>
</html>
```

OUTPUT:

Elanchezhian Muthukumar

Curriculum Vitae

Contact Information

Email: elan@email.com

Phone: (123) 456-7890

Website: www.yourwebsite.com

Education

- **MCA:** Periyar University, 2024

Experience

- **Full Stack Developer** at Elan Innovatix Labs

Skills

Python, Java, Web Development, and AWS

SOURCE CODE:

pro3.htm

```html
<!DOCTYPE html>
<html>
<head>
  <title>Home Page</title>
  <link rel="stylesheet" type="text/css" href="pro3.css">
</head>
<body>
  <header>
    <h1>Welcome to Our Website</h1>
    <nav>
      <ul>
        <li><a href="about.html">About Us</a></li>
        <li><a href="services.html">Our Services</a></li>
        <li><a href="contact.html">Contact Us</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <p>Welcome to our website. Explore our services and get in touch with us for
more information.</p>
  </main>
</body>
</html>
```

about.html

```html
<!DOCTYPE html>
<html>
<head>
  <title>About Us</title>
  <link rel="stylesheet" type="text/css" href="pro3.css">
</head>
<body>
  <header>
    <h1>About Us</h1>
    <nav>
      <ul>
        <li><a href="pro3.htm">Home</a></li>
```

```html
        <li><a href="services.html">Our Services</a></li>
        <li><a href="contact.html">Contact Us</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <p>Elan Innvoatix Labs is start up company and CEO is Elanchezhian</p>
  </main>
</body>
</html>
```

services.html
```html
<!DOCTYPE html>
<html>
<head>
  <title>About Us</title>
  <link rel="stylesheet" type="text/css" href="pro3.css">
</head>
<body>
  <header>
    <h1>About Us</h1>
    <nav>
      <ul>
        <li><a href="pro3.htm">Home</a></li>
        <li><a href="services.html">Our Services</a></li>
        <li><a href="contact.html">Contact Us</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <p>Elan Innvoatix Labs is start up company and CEO is Elanchezhian</p>
  </main>
</body>
</html>
```

contact.html
```html
<!DOCTYPE html>
<html>
<head>
  <title>Contact Us</title>
```

```html
      <link rel="stylesheet" type="text/css" href="pro3.css">
   </head>
   <body>
      <header>
         <h1>Contact Us</h1>
         <nav>
            <ul>
               <li><a href="pro3.htm">Home</a></li>
               <li><a href="about.html">About Us</a></li>
               <li><a href="services.html">Our Services</a></li>
            </ul>
         </nav>
      </header>
      <main>
         <p>Get in touch with us by using the contact information provided on this
page.</p>
         <p>Email: elan@email.com</p>
         <p>Phone: (123) 456-7890</p>
         <p>Website: www.yourwebsite.com</p>
      </main>
   </body>
</html>
```

pro3.css
```css
body {
   background-color: #f2f2f2;
   margin: 0;
   padding: 0;
}
header {
   background-color: #333;
   color: #fff;
   text-align: center;
   padding: 20px;
}
nav ul {
   list-style: none;
   padding: 0;
}
```

```css
nav ul li {
    display: inline;
    margin-right: 20px;
}
a {
    text-decoration: none;
    color: #fff;
}
main {
    max-width: 800px;
    margin: 20px auto;
    padding: 20px;
    background-color: #fff;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

OUTPUT:

Welcome to Our Website

About Us   Our Services   Contact Us

Welcome to our website. Explore our services and get in touch with us for more information.

About Us

Home   Our Services   Contact Us

Elan Innvoatix Labs is start up company and CEO is Elanchezhian

Our Services

Home   About Us   Contact Us

Web Development

Internship Traning

Software Development

Contact Us

Home   About Us   Our Services

Get in touch with us by using the contact information provided on this page.

Email: elan@email.com

Phone: (123) 456-7890

Website: www.yourwebsite.com

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
<head>
   <title>CSS Demonstration</title>
   <link rel="stylesheet" href="pro4.css">
   <style>
     /* Internal CSS */
     .internal-css {
        background-color: #f0f0f0;
        text-align: center;
        padding: 10px;
        font-size: 20px;
        color:#06038D;
     }
   </style>
</head>
<body>
   <!-- Inline CSS -->
   <div style="background-color: #FF671F; text-align: center; padding: 10px; font-size: 20px;">
      <h1>Inline CSS</h1>
      <p>This section uses inline CSS.</p>
   </div>

   <!-- Internal CSS -->
   <div class="internal-css">
      <h1>Internal CSS</h1>
      <p>This section uses internal CSS.</p>
   </div>

   <!-- External CSS -->
   <div class="external-css">
      <h1>External CSS</h1>
      <p>This section uses external CSS.</p>
   </div>
</body>
</html>
```

pro4.css

```css
/* External CSS */
.external-css {
  background-color: #046A38;
  text-align: center;
  padding: 10px;
  font-size: 20px;
}
```

OUTPUT:

Inline CSS

This section uses inline CSS.

Internal CSS

This section uses internal CSS.

External CSS

This section uses external CSS.

SOURCE CODE:

```xml
<?xml version="1.0"?>
<!-- XML demonstration -->
<?xml-stylesheet type="text/css" href="xml.css"?>
  <!DOCTYPE planet>
    <planet>
      <ocean>
        <name>Arctic</name>
        <area>13,000</area>
        <depth>1,200</depth>
      </ocean>
      <ocean>
        <name>Atlantic</name>
        <area>87,000</area>
        <depth>3,900</depth>
      </ocean>
      <ocean>
        <name>Pacific</name>
        <area>180,000</area>
        <depth>4,000</depth>
      </ocean>
      <ocean>
        <name>Indian</name>
        <area>75,000</area>
        <depth>3,900</depth>
      </ocean>
      <ocean>
        <name>Southern</name>
        <area>20,000</area>
        <depth>4,500</depth>
        </ocean>
    </planet>
```

xml.css

```css
planet, ocean{
   display: block;
   background-color: white;
   margin: 2em 1em;
   padding: 0 1em;
   border: 4px solid #cdf;
   background-color: white;
}
planet::before{
   content: 'Ocean';
   display: block;
   width:8em;
   margin: -.75em 0 .25em -.25em;
   padding:.1em .25em;
   border: 4px solid #cdf;
}
name,area,depth{
   display: block;
}
area::before,depth::before{
   content:attr(data-label);
}
area::after,depth::after{
   content:"million km2";
}
```

OUTPUT:

Ocean

Arctic
13,000million km2
1,200million km2

Atlantic
87,000million km2
3,900million km2

Pacific
180,000million km2
4,000million km2

Indian
75,000million km2
3,900million km2

Southern
20,000million km2
4,500million km2

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
<head>
  <title>Image Maps</title>
</head>
<body>
  <center>
    <h2>Image Maps</h2>
    <p>Click on the computer, the phone, or the cup of coffee to go to a new page
and read more about the topic:</p>
    <img src="workplace.jpg" alt="Workplace" usemap="#workmap"
width="400" height="379">
    <map name="workmap">
      <area shape="rect" coords="34,44,270,350" alt="Computer"
href="mac.jpg">
      <area shape="rect" coords="290,172,333,250" alt="Phone"
href="cellphone.jpg">
      <area shape="circle" coords="337,300,44" alt="Cup of coffee"
href="coffeehouse2.jpg">
    </map>
  </center>
</body>
</html>
```
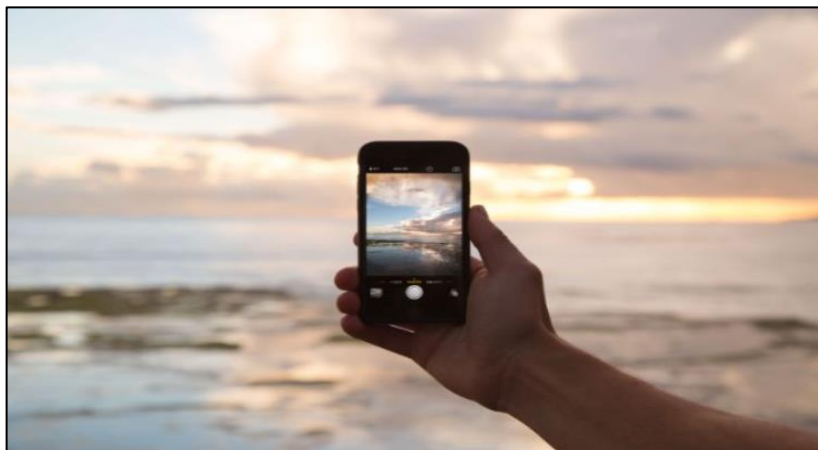
OUTPUT:

Image Maps

Click on the computer, the phone, or the cup of coffee to go to a new page and read more about the topic:

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js">
</script>
<body ng-app="myApp">
  <center>
  <h2>Validation Example</h2>
  <form ng-controller="validateCtrl" name="myForm" action="proadd.htm"
novalidate >

    <p>Username:<br>
      <input type="text" name="user" ng-model="user" required>
      <span ng-show="myForm.user.$touched && myForm.user.$invalid"
style="color:red">
        <span ng-show="myForm.user.$error.required">Username is
required.</span>
      </span>
    </p>

    <p>Email:<br>
      <input type="email" name="email" ng-model="email" required>
      <span ng-show="myForm.email.$touched && myForm.email.$invalid"
style="color:red">
        <span ng-show="myForm.email.$error.required">Email is
required.</span>
        <span ng-show="myForm.email.$error.email">Invalid email
address.</span>
      </span>
    </p>

    <p>
      <input type="submit" ng-disabled="myForm.$invalid">
    </p>
  </form>
```

```html
    <script>
      var app = angular.module('myApp', []);
      app.controller('validateCtrl', function ($scope) {
        $scope.user = '';
        $scope.email = '';
      });
    </script>
    <center>
</body>
</html>
```

proadd.htm
```html
<!DOCTYPE html>
<html>
<head>
  <title>Welcome to Our Website</title>
</head>
<body>
  <center>
  <h1>Welcome to Our Website</h1>
    <p>We're glad to have you here! This is a simple welcome page for our
website.</p>
  <center>
</body>
</html>
```

OUTPUT:

Validation Example

Username:

MCA_Boys

Email:

mca@gmail.com

Submit

Welcome to Our Website

We're glad to have you here! This is a simple welcome page for our website.

SOURCE CODE:

```php
<?php
$host = "127.0.0.1";
$userName = "root";
$userPass = "";
$database = "ex08";

$connectQuery = mysqli_connect($host, $userName, $userPass, $database);

if (mysqli_connect_errno()) {
  echo mysqli_connect_error();
  exit();
} else {
  $selectQuery = "SELECT * FROM `employee` ORDER BY `emp_name`
ASC";
  $result = mysqli_query($connectQuery, $selectQuery);
  if (mysqli_num_rows($result) > 0) {
  } else {
    $msg = "No Record found";
  }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>HTML and PHP code</title>
</head>
<body>
  <h1>Display employee list using HTML and PHP</h1>
  <?php if (isset($msg)) { echo $msg; } ?>
  <table border="1px" style="width:600px; line-height:40px;">
    <thead>
      <tr>
        <th>Name</th>
        <th>Email</th>
```

```
            <th>Phone</th>
            <th>Created Date</th>
          </tr>
        </thead>
        <tbody>
          <?php
            while($row = mysqli_fetch_assoc($result)){?>
            <tr>
              <td><?php echo $row['emp_name']; ?></td>
              <td><?php echo $row['email']; ?></td>
              <td><?php echo $row['phone']; ?></td>
              <td><?php echo $row['created_date']; ?></td>
            </tr>
          <?php } ?>
        </tbody>
      </table>
    </body>
  </html>
```

phpMyadmin

- ➢ To fetch details from the database.
- ➢ Open the XAMPP Control Panel and start the Apache and MySQL.
- ➢ Click on the Apache Admin to see the phpMyAdmin.
- ➢ Click on the MySQL Admin to see the Output of the Database.
- ➢ Create Database name as ex08 and Table name as employee.

  CREATE TABLE IF NOT EXISTS ` employee ` (`id` int(11) NOT NULL AUTO_INCREMENT, `emp_name` varchar(150) NOT NULL, `email` varchar(150) NOT NULL, `phone` varchar(100) NOT NULL, `created_date` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP, PRIMARY KEY (`id`)) ENGINE=MyISAM AUTO_INCREMENT=11 DEFAULT CHARSET=latin1;
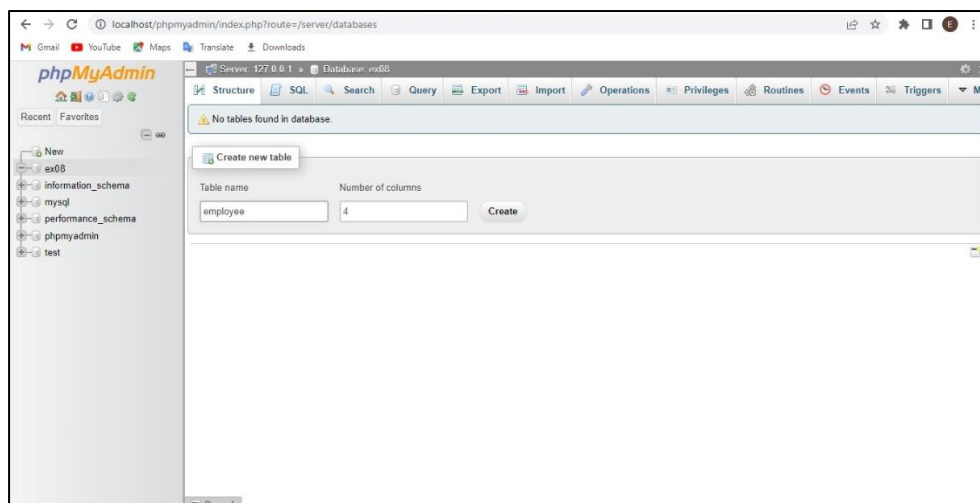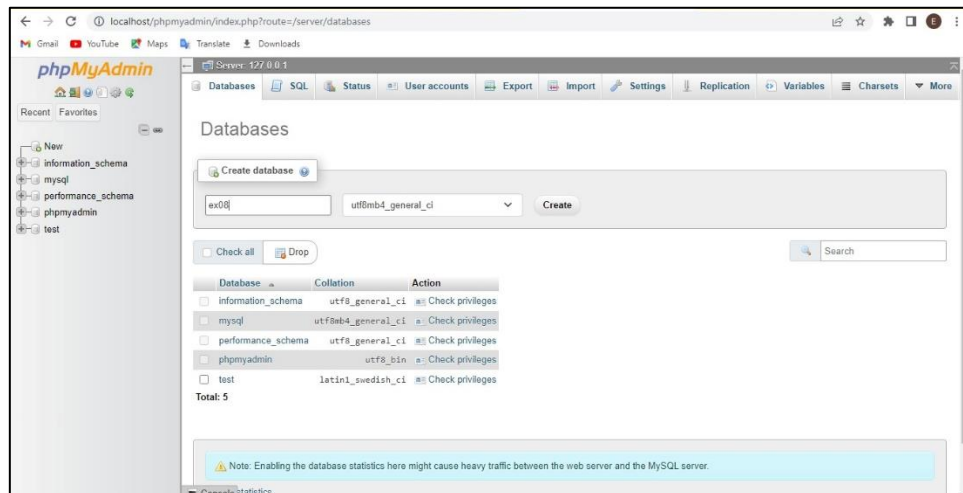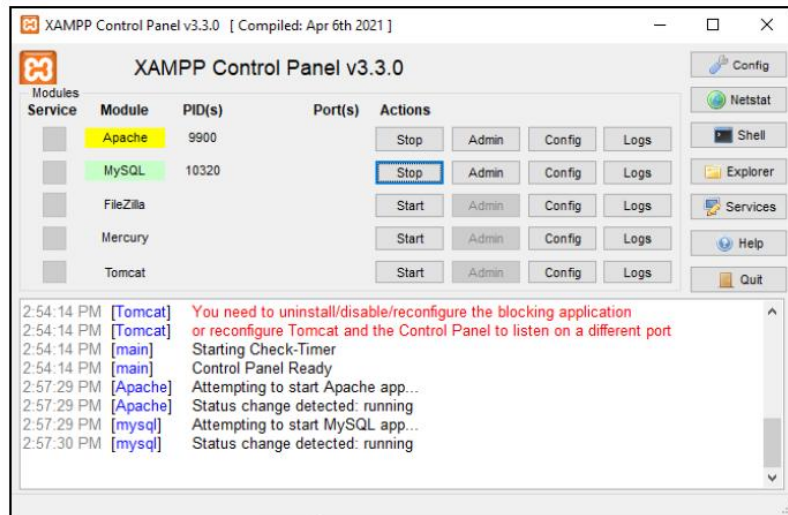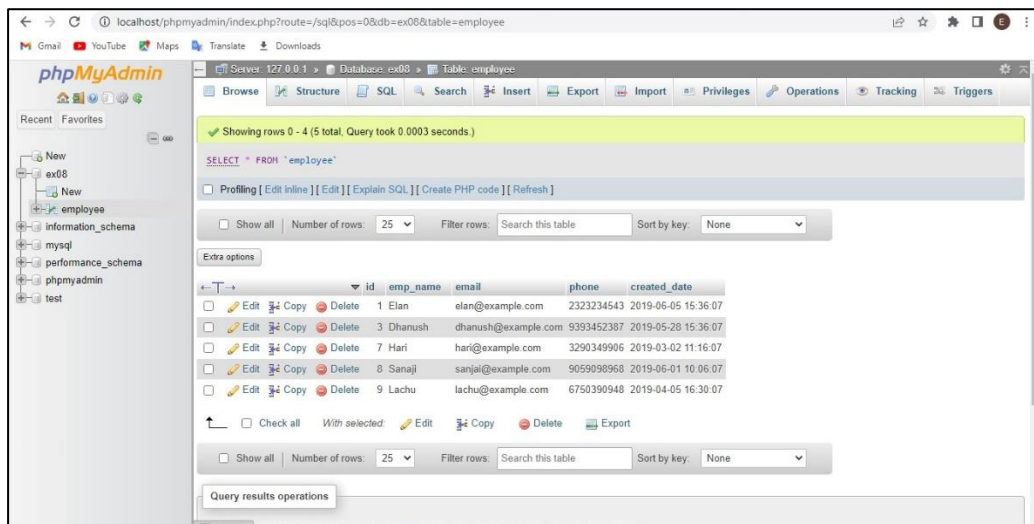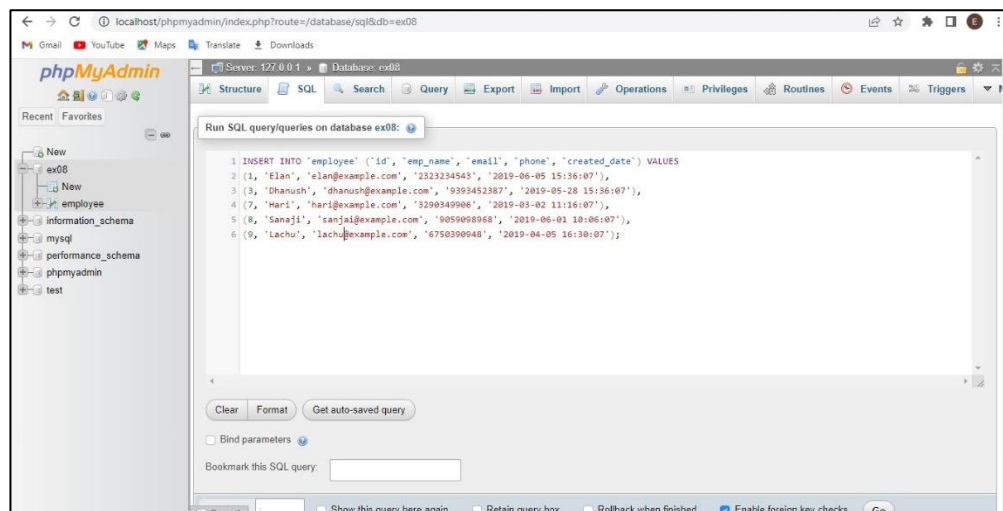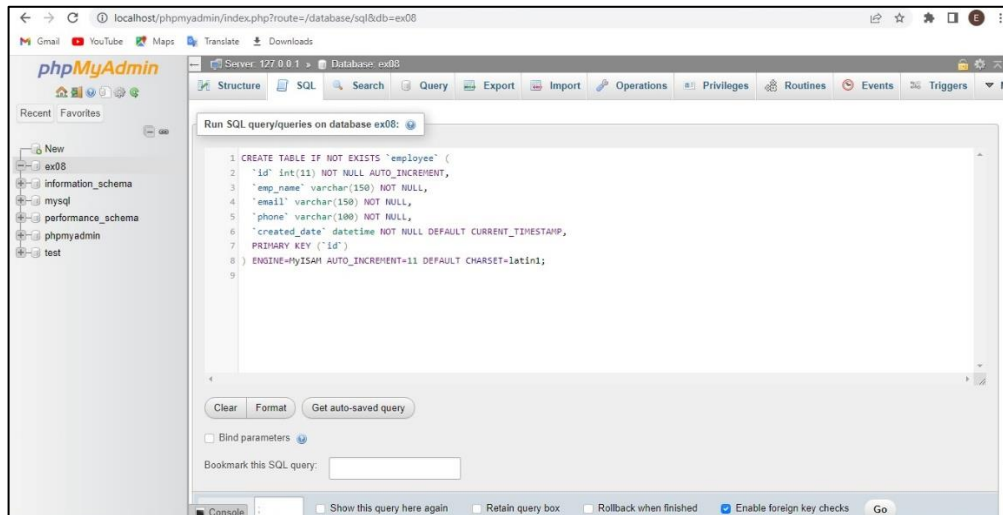
- ➢ Insert the Data for the table.

  INSERT INTO ` employee ` (`id`, `emp_name`, `email`, `phone`, `created_date`) VALUES (1, 'Elan', 'Elan@example.com', '2323234543', '2019-06-05 15:36:07'), (3, 'Dhanush', 'dhanush@example.com', '9393452387', '2019-05-28 15:36:07'), (7, 'Hari', 'hari@example.com', '3290349906', '2019-03-02 11:16:07'), (8, 'Sanjai', 'sanjai@example.com', '9059098968', '2019-06-01 10:06:07'), (9, 'lachu', 'lachu@example.com', '6750390948', '2019-04-05 16:30:07');

OUTPUT:

Index of /php_progam

Name	Last modified	Size	Description
📁 Parent Directory		-	
📄 p08.php	2023-08-04 19:34	1.8K	

Apache/2.4.56 (Win64) OpenSSL/1.1.1t PHP/8.2.4 Server at localhost Port 80
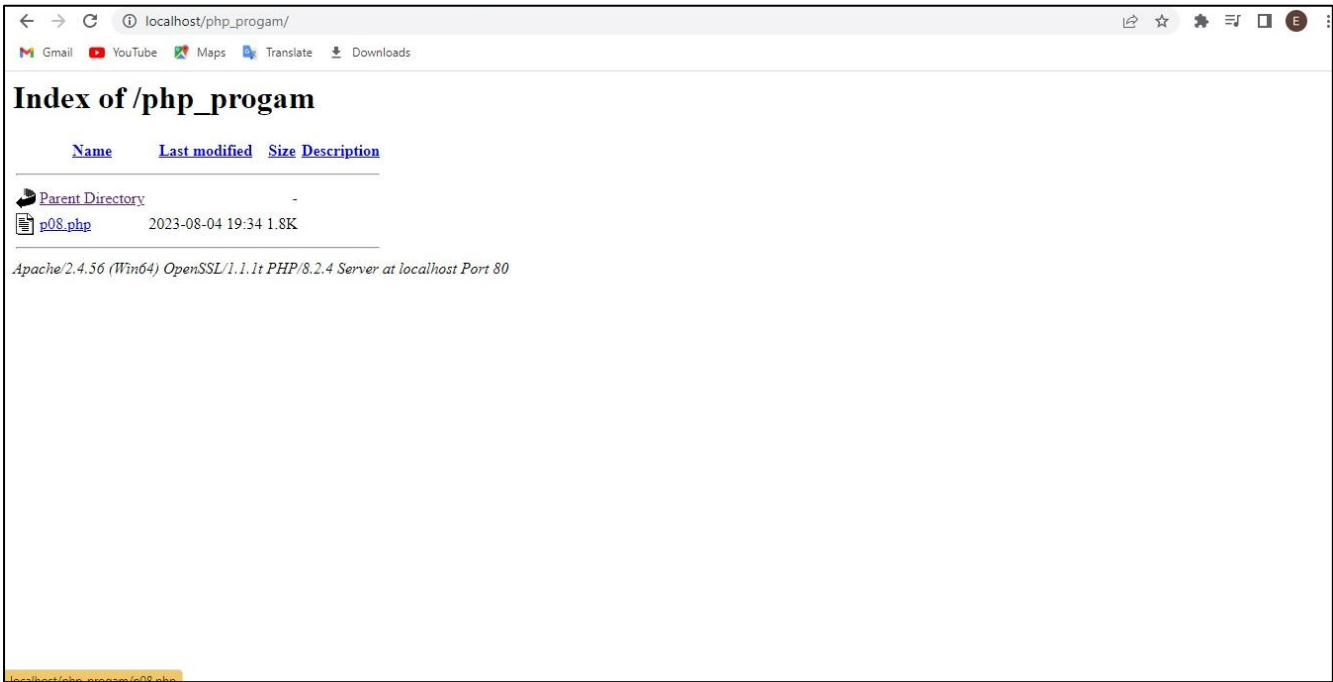
http://localhost/php_progam/p08.php

Display employee list using HTML and PHP

Name	Email	Phone	Created Date
Dhanush	dhanush@example.com	9393452387	2019-05-28 15:36:07
Elan	elan@example.com	2323234543	2019-06-05 15:36:07
Hari	hari@example.com	3290349906	2019-03-02 11:16:07
Lachu	lachu@example.com	6750390948	2019-04-05 16:30:07
Sanaji	sanjai@example.com	9059098968	2019-06-01 10:06:07

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
 <head>
   <title>Hide Paragraph using jQuery</title>
   <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
   <script>
     $(document).ready(function (){
        $("#hidb").click(function (){
           $("#mypar").hide();
        });
     });
   </script>
 <body>
  <center>
     <h1> This Paragraph Hideing example</h1>
     <p id="mypar">This pargraph will hide</p>
     <button id="hidb">Hide Paragraph</button>
  <center>
  </body>
</html>
```
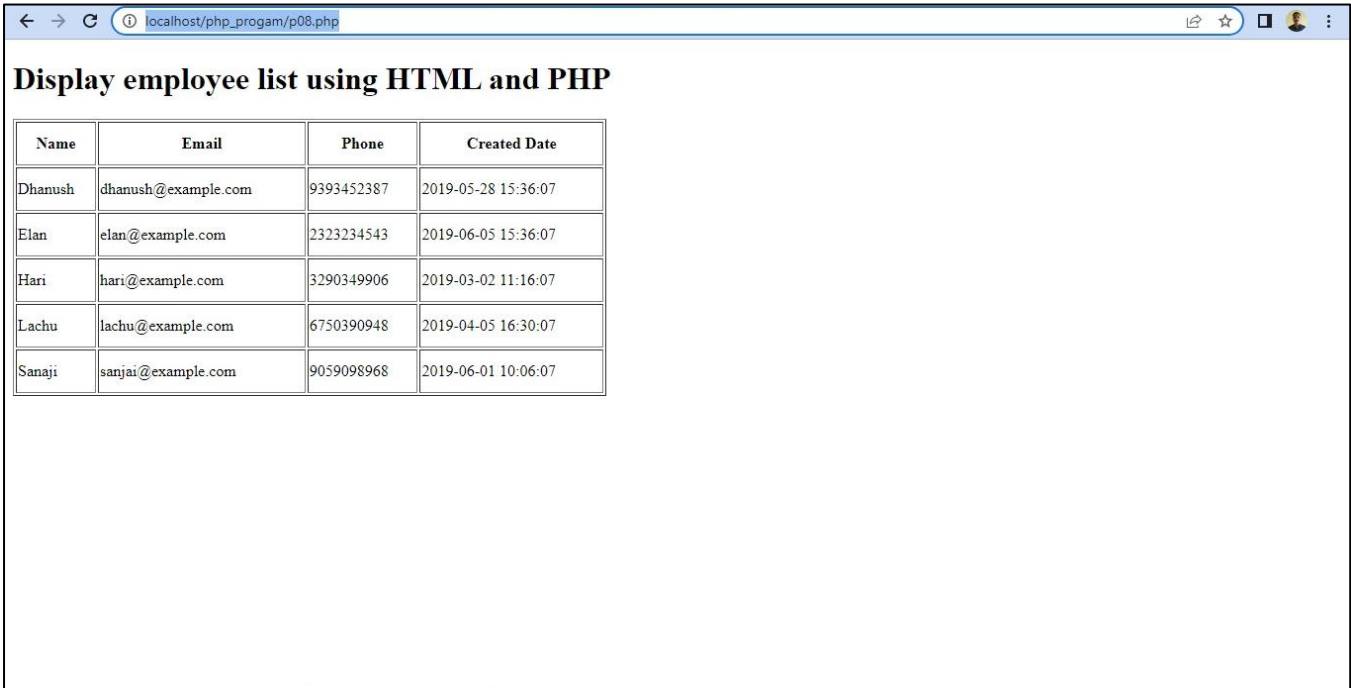
OUTPUT:

This Paragraph Hideing example

This pargraph will hide

Hide Paragraph

This Paragraph Hideing example

Hide Paragraph

SOURCE CODE:

```html
<!DOCTYPE html>
<html>
<head>
  <title>Mouse and Form Event Handling</title>
  <style>
    .container {
      text-align: center;
      margin-top: 100px;
    }
  </style>
</head>
<body>
  <div class="container">
    <h1>Mouse and Form Event Handling Example</h1>
    <div id="myElement" onmouseover="handleMouseOver()"
onmouseout="handleMouseOut()"
      style="padding: 20px; border: 1px solid black;">
      Move the mouse over this element to change its background color.
    </div>
    <br>
    <form onsubmit="handleSubmit(event)">
      <label for="myInput">Enter a value:</label>
      <input type="text" id="myInput" required>
      <button type="submit">Submit</button>
    </form>
  </div>
  <script src="pro10.js"></script>
</body>
</html>
```

pro10.js
```javascript
function handleMouseOver() {
  document.getElementById("myElement").style.backgroundColor = "lightblue";
}
function handleMouseOut() {
  document.getElementById("myElement").style.backgroundColor = "white";
}
```

```javascript
function handleSubmit(event) {
  event.preventDefault();
  var input = document.getElementById("myInput").value;
  alert("Form submitted! Value entered: " + input);
}
```

OUTPUT:

Mouse Event:

Mouse and Form Event Handling Example

Move the mouse over this element to change its background color.

Enter a value: [   ] Submit

Mouse and Form Event Handling Example

Move the mouse over this element to change its background color.

Enter a value: [   ] Submit

Form event:

This page says

Form submitted! Value entered: Elan

OK

Mouse and Form Event Handling Example

Move the mouse over this element to change its background color.

Enter a value: [Elan   ] Submit