

- 1) Develop a php program to connect to a database and retrieve tge data from a table and show in a neat format

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Database Data</title>

    <style>

        table {

            width: 50%;

            border-collapse: collapse;

            margin: 20px 0;

        }

        table, th, td {

            border: 1px solid black;

        }

        th, td {

            padding: 10px;

            text-align: left;

        }

    </style>

</head>

<body>

    <?php

    // Database credentials
```

```

$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "database_name";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// SQL query to retrieve data from the table
$sql = "SELECT * FROM your_table_name";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    echo "<table><tr><th>ID</th><th>Name</th><th>Email</th></tr>";
    // Output data of each row
    while($row = $result->fetch_assoc()) {
        echo "<tr><td>".$row["id"]."</td><td>".$row["name"]."</td><td>".$row["email"]."</td></tr>";
    }
    echo "</table>";
} else {
    echo "0 results found";
}

// Close connection
$conn->close();
?>

```

```
</body>
```

```
</html>
```

- 2) Outline a registration form using php and do necessary validations

Register.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Registration</title>
</head>
<body>
  <h2>User Registration</h2>
  <form action="register.php" method="post">
    Name: <input type="text" name="name" required><br><br>
    Email: <input type="email" name="email" required><br><br>
    Password: <input type="password" name="password" required><br><br>
    Confirm Password: <input type="password" name="confirm_password"
required><br><br>
    <input type="submit" value="Register">
  </form>
</body>
</html>
```

register.php (PHP Server-side Validation)

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $name = $_POST["name"];
  $email = $_POST["email"];
  $password = $_POST["password"];
  $confirmPassword = $_POST["confirm_password"];

  // Basic client-side validation
  if ($password !== $confirmPassword) {
    echo "Passwords do not match. Please try again.";
  } else {
    // Server-side validation (you can add more validation logic here)
    if (strlen($password) < 6) {
      echo "Password must be at least 6 characters long.";
    } else {
      // Registration logic (insert data into the database, etc.) can be added here
      echo "Registration successful! Welcome, " . $name . "!";
    }
  }
}
```

```
}  
?>
```

- 3) Compose electricity bill from user input based on a given tariff using php

electricity_bill.html (HTML Form)

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Electricity Bill Calculator</title>  
</head>  
<body>  
  <h2>Electricity Bill Calculator</h2>  
  <form action="calculate_bill.php" method="post">  
    Enter Usage (kWh): <input type="number" name="usage" required><br><br>  
    <input type="submit" value="Calculate Bill">  
  </form>  
</body>  
</html>
```

calculate_bill.php (PHP Script to Calculate Electricity Bill)

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Electricity Bill</title>  
</head>  
<body>  
  <h2>Electricity Bill</h2>  
  
  <?php  
    // Tariff rate (cost per kWh)  
    $tariff_rate = 0.12; // Replace this with your actual tariff rate  
  
    // Retrieve user input  
    $usage = $_POST["usage"];  
  
    // Calculate total cost  
    $total_cost = $usage * $tariff_rate;  
  
    // Display the electricity bill  
    echo "Usage: " . $usage . " kWh<br>";  
    echo "Tariff Rate: $" . $tariff_rate . " per kWh<br>";  
    echo "Total Cost: $" . number_format($total_cost, 2);  
  ?>
```

```
</body>  
</html>
```