

## Experiment No: 01

**Experiment Name:** Write HTML code for following table and design it your own choice using CSS.

*A test table with merged cells*

	Average		Red eyes
	height	weight	
Males	1.9	0.003	40%
Females	1.7	0.002	43%

### Objective:

To create a test table with merged cells and style it using CSS.

### Theory:

HTML tables are created using the <table>, <tr>, and <td> tags. The <table> tag is used to define the start and end of the table. The <tr> tag is used to define a row in the table, and the <td> tag is used to define a cell in a row.

To merge cells in a table, you can use the colspan and rowspan attributes. The colspan attribute specifies the number of columns that the cell should span, and the rowspan attribute specifies the number of rows that the cell should span.

### CSS Design:

The CSS design for the table is simple, but effective. It uses a border-collapse model to collapse the borders between the table cells, and it sets the width of the table to 100% so that it will fill the width of the container element.

The header row of the table has a light gray background color and the text is centered. The merged cell in the header row has a text alignment of center as well. The table body rows have a black border on all sides and the text is left-aligned.

### Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
```

```

<style>
    table,tr,td,th{
        border: 2px solid black;
        border-collapse: collapse;
        width: 30%;
        text-align: center;

    }
</style>

</head>
<body>
    <center><pre><h2> <i> A test table with merged cells</i></h2></pre></center>
    <center>
        <table border="1">
<tr>
    <th rowspan="2">    <br>    </th>
    <th colspan="2"> Average </th>
    <th rowspan="2"> Red eyes </th>
</tr>

<tr>
    <td> height</td>
    <td> weight</td>
</tr>

<tr>
    <td> Male</td>
    <td> 1.9</td>
    <td> 0.003</td>
    <td> 40%</td>
</tr>

<tr>
    <td> Female</td>
    <td> 1.7</td>
    <td> 0.002</td>
    <td> 43%</td>
</tr>
        </table></center>
</body>
</html>

```

## Output:

*A test table with merged cells*

	Average		Red eyes
	height	weight	
Male	1.9	0.003	40%
Female	1.7	0.002	43%

## Experiment No: 02

**Experiment Name:** Create a web page for internal links; when the user clicks on different links on the webpage it should go to the appropriate locations/sections in the same page and display different order list.

### Objective

The objective of this lab is to design and implement a web page with internal links, allowing users to navigate to specific sections within the same page. Each section will contain a different ordered list, offering a seamless and organized browsing experience.

### Theory

#### Internal Links

Internal links, also known as anchor links, enable users to jump to specific parts of the same web page. These links use HTML anchor tags with unique IDs to connect different sections of content within the page.

#### Ordered Lists

Ordered lists in HTML are used to present items in a specific sequence. They are created using the <ol> (ordered list) tag and include list items defined by the <li> (list item) tag. The 'start' attribute can specify the starting number for the ordered list.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>
  <link rel="stylesheet" href="style.css">

  <style>
    /* Style for the navigation links */
    #nav {
      text-align: center;
      margin: 20px;
    }

    #nav a {
      text-decoration: none;
      margin: 10px;
    }
  </style>
</head>
<body>
  <div id="nav">
    <a href="#section1">Section 1</a>
    <a href="#section2">Section 2</a>
    <a href="#section3">Section 3</a>
  </div>

  <div id="section1">
    <h3>Section 1</h3>
    <ol>
      <li>Item 1</li>
      <li>Item 2</li>
      <li>Item 3</li>
    </ol>
  </div>

  <div id="section2">
    <h3>Section 2</h3>
    <ol>
      <li>Item 1</li>
      <li>Item 2</li>
      <li>Item 3</li>
    </ol>
  </div>

  <div id="section3">
    <h3>Section 3</h3>
    <ol>
      <li>Item 1</li>
      <li>Item 2</li>
      <li>Item 3</li>
    </ol>
  </div>
</body>
</html>
```

```

    }
    /* Style for the ordered lists */
    #list1, #list2, #list3 {
        display: none;
    }
    /* Style for the visible ordered list */
    #list1.active, #list2.active, #list3.active {
        display: block;
    }
</style>

</head>
<body>
    <div id="nav">

        <a href="#home">Section 1</a>
        <a href="#services">Section 2</a>
        <a href="#portfolio">Section 3</a>
        <a href="#about">Section 4</a>
        <a href="#contact">Contact 5</a>
    </div>
</header>
<section class="home" id="home">
    <div class="home-content">
        <h2>Section 1</h2>
        <ol id="list1" class="active">
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>

        </ol>
    </div>
</section>

    <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<!-- services section design -->
<section class="services" id="services">
    <div>

        <h2>Section 2</h2>
        <ol id="list1" class="active">
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>
            <li>Item 1</li>
            <li>Item 2</li>

```

```

        <li>Item 3</li>
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>
    </ol>
</div>
</section>
<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<!-- portfolio design -->
<section class="portfolio" id="portfolio">

<div>
    <h2>Section 3</h2>
    <ol id="list1" class="active">
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>

    </ol>
</div>
</section>
<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<!-- About Section Design -->
<section class="about" id="about">
    <div>
        <h2>Section 4</h2>
        <ol id="list1" class="active">
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>
            <li>Item 1</li>
            <li>Item 2</li>
            <li>Item 3</li>

        </ol>
    </div>
</section>
<br><br><br><br><br><br><br><br><br><br><br><br><br>
<!-- Form Section Design -->
<section class="contact" id="contact">

    <div>
        <h2>Section 5</h2>
        <ol id="list1" class="active">

```

```
<li>Item 1</li>
<li>Item 2</li>
<li>Item 3</li>
<li>Item 1</li>
<li>Item 2</li>
<li>Item 3</li>
<li>Item 1</li>
<li>Item 2</li>
<li>Item 3</li>
</ol> </div>
```

```
</section>
```

```
</body>
```

```
</html>
```

## Output:

[Section 1](#) [Section 2](#) [Section 3](#) [Section 4](#) [Section 5](#)

### Section 1

1. Item 1
2. Item 2
3. Item 3
4. Item 1
5. Item 2
6. Item 3
7. Item 1
8. Item 2
9. Item 3

### Section 2

1. Item 1
2. Item 2
3. Item 3
4. Item 1
5. Item 2
6. Item 3
7. Item 1
8. Item 2
9. Item 3

### Section 3

1. Item 1
2. Item 2
3. Item 3
4. Item 1
5. Item 2
6. Item 3
7. Item 1
8. Item 2
9. Item 3

### Section 4

1. Item 1
2. Item 2
3. Item 3
4. Item 1
5. Item 2
6. Item 3
7. Item 1
8. Item 2
9. Item 3

### Section 5

1. Item 1
2. Item 2
3. Item 3
4. Item 1
5. Item 2
6. Item 3
7. Item 1
8. Item 2
9. Item 3

## Experiment No: 03

**Experiment Name:** Write HTML code for the following picture: i) Alignment text level and text box using CSS and ii) Connect this form into database using PHP.

### Objective

The objective of this experiment is to create a web form with aligned text and text boxes using HTML and CSS for a visually pleasing user interface. Additionally, we aim to connect this form to a database using PHP to store user-submitted data securely.

### Theory

#### Part I: HTML and CSS for Form Design

HTML (Hypertext Markup Language) is used for structuring web content, while CSS (Cascading Style Sheets) is used for styling and formatting web content. In this experiment, we will design a user-friendly form using HTML and CSS, allowing users to input their information.

#### Part II: Connecting to a Database with PHP

PHP (Hypertext Preprocessor) is a server-side scripting language used for creating dynamic web applications. We will use PHP to process the form data and store it in a database. Database integration is crucial for persistently storing and managing user information.

### Materials

Text editor (Visual Studio Code)

Web server (XAMPP)

### Code:

```
<?php
    $connect=mysqli_connect("localhost","root","","personal_info");
    //require();
    //Insert start
    if(isset($_POST["insert"]))
    {

        $first_name=$_POST["first_name"];
        $email=$_POST["email"];
        $password=$_POST["password"];
```

```

$gender=$_POST["gender"];

$insert="insert into information1(First_Name,Email>Password,Gender)
values('$first_name','$email', '$password','$gender')";
$result=mysqli_query($connect,$insert);
if($result==1)
{
    echo"Successfully insert a record!";
}
else
{
    echo"Unsuccess";
}
} //Insert end

```

```

?>

```

```

<html>

```

```

<head>

```

```

    <title>Personal Details</title>

```

```

    <style type="text/css">

```

```

        body{

```

```

            text-align: center;

```

```

            font-size: 25px;

```

```

        }

```

```

        input{

```

```

            font-size: 20px;

```

```

        }

```

```

        table

```

```

        {

```

```

            margin: auto;

```

```

            font-size: 20px;

```

```

        }

```

```

    </style>

```

```

</head>

```

```

<body>

```

```

    <h2>Information Form </h2>

```

```

<form method="post"action="">

```

```

<table border="0" style="text-align:left" >

```

```

    <tr>

```

```

        <tr>

```

```

            <th>First Name</th>

```

```

        <td><input type="text" name="first_name" required></td>

```

```

    </tr>

```

```

    <tr>

```

```

        <th>Email</th>

```

```

        <td><input type="text" name="email" required></td>

```

```

    </tr>

```

```

    <tr>

```

```

        <th>Password</th>

```

```

        <td><input type="text" name="password"></td>

```

```

    </tr>

```

```

    <tr>

```



```

        <th>Gender</th>
        <td><input type="radio" name="gender" value="Male" checked> Male
            <input type="radio" name="gender" value="Female"> Female
        </td>
    </tr>
    <tr>
        <td>

            <input type="submit" name="insert" value="Submit">
        </td>
    </tr>
</table>

<br>

</form>

</body>
</html>

```

**Output:**

Successfully insert a record!

## Information Form

First Name

Email

Password

Gender ☒ Male ☐ Female

## Information Form

First Name

Email

Password

Gender ☒ Male ☐ Female

First_Name	Email	Password
Md Rashedul	rashedulislam.200613@s.pust.ac.bd	01780340222@Rr
Md Rashedul	rashedulislam.200613@s.pust.ac.bd	01780340222@Rr
Md Rashedul	rashedulislam.200613@s.pust.ac.bd	01780340222@Rr
Md Rashedul	rashedulislam.200613@s.pust.ac.bd	01780340222@Rr
Md Rashedul	rashedulislam6256@gmail.com	01780340222
Amina khatun	aminakhatun251200@gmail.com	01780340222
Md Rashedul Islam	rashedulislam.200613@s.pust.ac.bd	01780340222
Md Rashedul Islam	rashedulislam6256@gmail.com	01780340222

## Experiment No: 04

**Experiment Name:** Write *JavaScript* to validate the following fields of the above registration page.

- i) Name (Name should contains alphabets and the length should not be less than 6characters).
- ii) Password (Password should not be less than 6 characters length).
- iii) E-mail id (should not contain any invalid and must follow the standard patternname@domain.com)
- iv) Phone number (Phone number should contain 10 digits only).

## Objective

- To know about javascript function.
- To know about validation of name, email, number and password.
- To know about condition operator in javascript.

## Theory

In this problem The validateForm() function is called when the form is submitted. It performs the following validations:

The name field should not be empty and should contain only alphabets with length not less than 6 characters.

The email field should not be empty and should match the standard email pattern.

The phone number field should not be empty and should contain 10 digits only.

The password field should not be empty and should have length not less than 6 characters.

If any of the validations fail, an alert message is displayed and the form submission is prevented. If all the validations pass, a success message is displayed and the form is submitted.

## Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Personal Details</title>
  <style type="text/css">
    body {
      text-align: center;
      font-size: 25px;
    }
  </style>
</head>
<body>
```

```

    input {
        font-size: 20px;
    }

    table {
        margin: auto;
        font-size: 20px;
    }
</style>
</head>
<body>
    <h2>Information Form</h2>
    <form method="post" action="" onsubmit="return validateForm()">
        <table border="0" style="text-align: left">
            <tr>
                <th>First Name</th>
                <td><input type="text" name="first_name" required></td>
            </tr>
            <tr>
                <th>Email</th>
                <td><input type="text" name="email" id="email" required></td>
            </tr>
            <tr>
                <th>Password</th>
                <td><input type="password" name="password" id="password"></td>
            </tr>
            <tr>
                <th>Gender</th>
                <td><input type="radio" name="gender" value="Male" checked> Male
                    <input type="radio" name="gender" value="Female"> Female
                </td>
            </tr>
            <tr>
                <td>
                    <input type="submit" name="insert" value="Submit">
                </td>
            </tr>
        </table>
    </form>

    <script>
        function validateForm() {
            var name = document.getElementsByName("first_name")[0].value;
            var email = document.getElementById("email").value;
            var password = document.getElementById("password").value;

            // Validate Name
            if (name.length < 6 || !/^[a-zA-Z ]+$/.test(name)) {
                alert("Name should contain alphabets and be at least 6 characters
long.");
                return false;
            }
        }
    </script>

```

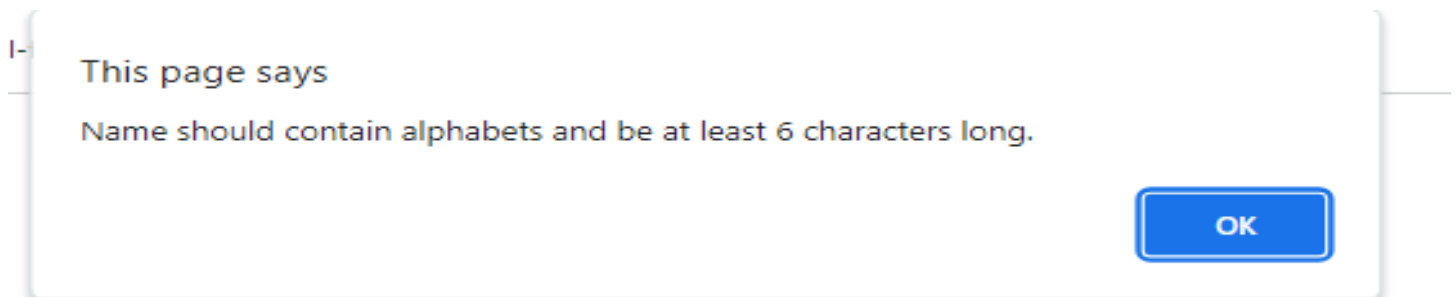
```
}

// Validate Password
if (password.length < 6) {
    alert("Password should be at least 6 characters long.");
    return false;
}

// Validate Email
var emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
if (!email.match(emailPattern)) {
    alert("Invalid email address. Please use a valid email pattern (e.g.,
name@domain.com).");
    return false;
}

return true;
}
</script>
</body>
</html>
```

## Output:



<b>First Name</b>	<input type="text" value="Md"/>
<b>Email</b>	<input type="text" value="rashedulislam6256@gmail.c"/>
<b>Password</b>	<input type="password" value="....."/>
<b>Gender</b>	<input checked="" type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Submit"/>	

## Experiment No: 05

**Experiment Name:** Write HTML code to create a frameset with two vertical frames: the first frame is 250 pixels wide. Fill the first frame (left\_vertical) with links of *ice.html* and *it.html*. Second frame further divided into two horizontal frames(400px,350px).Fill the Top frame (right\_top)with *ice.html* and Bottom (right\_bottom) with *it.html*

### Objective:

- To divide webpage into multiple sections
- To display multiple web pages simultaneously
- To reduce page loading time

### Theory:

HTML frames are a deprecated feature that allow you to divide a web page into multiple sections or frames, each of which can contain a separate HTML document. Each frame is defined by a separate <frame> element, and all of the frames are defined within a <frameset> element.

### Code:

#### //Frameset.html code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Frameset Example</title>
</head>
<frameset cols="250,*,*">
  <!-- Left Vertical Frame -->
  <frame name="left_vertical" src="front.html">
  <!-- Right Vertical Frameset (Further Divided) -->
  <frameset rows="400,350">
    <!-- Right Top Frame -->
    <frame name="right_top" src="b_left.html">

    <!-- Right Bottom Frame -->
    <frame name="right_bottom" src="b_right.html">
  </frameset>
  <!-- This is a fallback content for browsers that don't support
framesets -->
  <noframes>
    <body>
    </body>
  </noframes>
</frameset>
</html>
```

#### //ice.html code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
  <p>This is the technology-based department
of Pabna University of Science and
Technology," it indicates that
the ICE Department at Pabna University
of Science and Technology is focused on
technology-related fields,
which may include subjects like
computer science, information technology,
electronics, and communication
engineering.</p>
</body>
</html>
```

### //Left frame code:

```
<!DOCTYPE html>

<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <!-- In your "front.html" file -->
  <a href="ice.html" target="right_top">ice.html </a> <br><br>
  <a href="it.html" target="right_bottom">it.html </a>

</body>
</html>
```

### //it.html code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
</head>
<body>
  <p>Information Technology, often
abbreviated as IT, plays a pivotal role in
our modern world. It encompasses
      a wide range of technologies and
practices that enable individuals,
      businesses, organizations, and
governments to handle information
efficiently and effectively.</p>
</body>
</html>
```

## Output:

[ice.html](#)  
[it.html](#)

### Information of ICE

### Information of IT

[ice.html](#)  
[it.html](#)

This is the technology-based department of Pabna University of Science and Technology," it indicates that the ICE Department at Pabna University of Science and Technology is focused on technology-related fields, which may include subjects like computer science, information technology, electronics, and communication engineering.

Information Technology, often abbreviated as IT, plays a pivotal role in our modern world. It encompasses a wide range of technologies and practices that enable individuals, businesses, organizations, and governments to handle information efficiently and effectively.

## Experiment No: 06

**Experiment Name:** Write JavaScript code using a for loop that will iterate from 0 to 30. For each iteration, it will check if the current number is odd or even and display a message on the screen.

### Objective(s):

- To know how using a loop and conditional operator we can determine a number is even or odd within a range
- To know how a loop working in javascript

### Theory:

In this problem we developed a script to create a for loop based on the user input. The loop will start from the value entered by the user as the starting point and end at the value entered as the ending point. The loop will iterate over each value between the starting and ending points, and for each value, the script will check if it is even or odd. If the value is even, it will print a message saying so, and if it is odd, it will print a message saying so. The messages are displayed in the HTML document using the document.write() method. Finally, the script will display the range of the for loop on the HTML page using the innerHTML property of an HTML element with the id of for\_loop.

### Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Odd and Even Numbers</title>
</head>
<body>
  <h1>Odd and Even Numbers</h1>
  <ul id="numberList"></ul>

  <script>
    // Get a reference to the <ul> element where we'll display the numbers
    const numberList = document.getElementById('numberList');

    // Loop from 1 to 30 and display whether each number is odd or even
    for (let i = 1; i <= 30; i++) {
      const listItem = document.createElement('li');
```

```
    listItem.textContent = `${i} is ${i % 2 === 0 ? 'even' : 'odd'}`;  
    numberList.appendChild(listItem);  
  }  
</script>  
</body>  
</html>
```

## Output:

# Odd and Even Numbers

- 1 is odd
- 2 is even
- 3 is odd
- 4 is even
- 5 is odd
- 6 is even
- 7 is odd
- 8 is even
- 9 is odd
- 10 is even
- 11 is odd
- 12 is even
- 13 is odd
- 14 is even
- 15 is odd
- 16 is even
- 17 is odd
- 18 is even
- 19 is odd
- 20 is even
- 21 is odd
- 22 is even
- 23 is odd
- 24 is even
- 25 is odd
- 26 is even
- 27 is odd
- 28 is even
- 29 is odd
- 30 is even



## Experiment No: 07

**Experiment Name:** Write a PHP program to calculate Electricity bill in single page for units.

### Conditions:

- For units less 50            – Taka. 3.50/unit
- For units 51 to 100        – Taka. 4.00/unit
- For units 101 to 200      – Taka. 5.20/unit
- For units above 250       – Taka. 6.50/unit

### Objective:

- To know how to calculate electricity bill in php
- To know how to show calculated value in webpage

### Theory:

We will learn calculation of electricity bill using php if else conditional operator. The electricity bill's unit is varies based on unit. In this program we will find out the calculated value of electricity bill.

### Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Electricity Bill Calculator</title>
</head>
<body>
  <h1>Electricity Bill Calculator</h1>

  <form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post">
    <label for="units">Units Consumed:</label>
    <input type="number" name="units" id="units">
    <input type="submit" value="Calculate Bill">
  </form>

  <?php
  if (isset($_POST['units'])) {
    $units = $_POST['units'];

    // Calculate the electricity bill based on the number of units consumed.
    $billAmount = 0;
    if ($units <= 50) {
      $billAmount = $units * 3.50;
    } elseif ($units <= 100) {
      $billAmount = 50 * 3.50 + ($units - 50) * 4.00;
```

```
} elseif ($units <= 200) {  
    $billAmount = 50 * 3.50 + 50 * 4.00 + ($units - 100) * 5.20;  
} else {  
    $billAmount = 50 * 3.50 + 50 * 4.00 + 100 * 5.20 + ($units - 200) * 6.50;  
}  
  
// Display the calculated electricity bill.  
echo "<h2>Calculated Electricity Bill</h2>";  
echo "<p>Your electricity bill for $units units is Taka $billAmount.</p>";  
}  
?>  
</body>  
</html>
```

## Output:

# Electricity Bill Calculator

Units Consumed:

## Calculated Electricity Bill

Your electricity bill for 100 units is Taka 375.

## Experiment No: 08

**Experiment Name:** Write a simple calculator program using PHP in single page.

**Operations:** Addition, Subtraction, Multiplication, Division.

### Objectives:

- To know how to calculate addition in PHP
- To know how to calculate subtraction in PHP
- To know how to calculate multiplication in PHP
- To know how to calculate division in PHP

### Theory:

**Addition:** The addition in PHP program, if we take two variables as \$x and \$y then result  $z = x + y$ ;

**Subtraction:** The subtraction in PHP program, if we take two variables as \$x and \$y then result  $z = x - y$ ;

**Multiplication:** The multiplication in PHP program, if we take two variables as \$x and \$y then result  $z = x * y$ ;

**Division:** The division in PHP program, if we take two variables as \$x and \$y then result  $z = x / y$ ;

### Code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Calculator</title>
</head>
<body>
    <h1>Simple Calculator</h1>
    <form method="post" action="">
        <label for="num1">Enter the first number:</label>
        <input type="text" name="num1" id="num1">
        <br>
        <label for="num2">Enter the second number:</label>
        <input type="text" name="num2" id="num2">
        <br>
        <input type="submit" name="operation" value="Addition (+)">
        <input type="submit" name="operation" value="Subtraction (-)">
        <input type="submit" name="operation" value="Multiplication (*)">
        <input type="submit" name="operation" value="Division (/)">
    </form>
```

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num1 = $_POST["num1"];
    $num2 = $_POST["num2"];
    $operation = $_POST["operation"];
    $result = 0;

    switch ($operation) {
        case 'Addition (+)':
            $result = $num1 + $num2;
            break;
        case 'Subtraction (-)':
            $result = $num1 - $num2;
            break;
        case 'Multiplication (*)':
            $result = $num1 * $num2;
            break;
        case 'Division (/)':
            if ($num2 != 0) {
                $result = $num1 / $num2;
            } else {
                echo "Division by zero is not allowed.";
            }
            break;
        default:
            echo "Invalid operation selected.";
    }
}
?>
<p>Result: <?php echo $result; ?></p>
<?php
}
?>
</body>
</html>
```

## Output:

# Simple Calculator

Enter the first number:

Enter the second number:

Addition (+)

Subtraction (-)

Multiplication (\*)

Division (/)

Result: 15

## Experiment No: 09

### Experiment Name:

A. Solve the following **Task-1** and **Task-2**.

**Task-1:** Create a database called **Student** in XAMPP MySQL.

**Task-2:** Create a table called **Semester\_Reg** in the **Student** database having the structure as shown below.

Field name	Data type	Requirement
ID	Number/Text	Mandatory and primary key
Name	Text	Mandatory
Session	Text	Must follow the format like <b>2017-2018</b>
Phone_No	Text	Optional
City	Text	For example <b>Pabna</b>
Gender	Text	Only ( <b>Male or Female</b> )

B. Solve the following **P** marked tasks.

**Task 3:** Insert some sample data into **Semester\_Reg** table using PHP program.

**Task 4:** Write a PHP program to show the all records of **Semester\_Reg** table.

**Task 5:** Delete single sample data from **Semester\_Reg** table using PHP program.

**Task 6:** Update one sample data of **Semester\_Reg** table using PHP program.

### Objectives:

- To know how update data in database using php
- To know how delete data in database using php
- To know how insert data in database using php
- To know how create a database.

### Code:

```
<?php
//$connect=mysqli_connect("localhost","root","","Student");
include("connection.php");
//require();
//Insert start
if(isset($_POST["insert"]))
```

```

{
    $id=$_POST["id"];
    $name=$_POST["name"];
    $sess=$_POST["session"];
    $phone=$_POST["ph_number"];
    $city=$_POST["city"];
    $gender=$_POST["gender"];
    $insert="insert into semester_reg(ID,Name,Session,Ph_Num,City, Gender)
values('$id','$name','$sess', '$phone', '$city', '$gender')";
    $result=mysqli_query($connect,$insert);
    if($result==1)
    {
        echo"Successfully insert a record!";
    }
    else
    {
        echo"Unsucess";
    }
} //Insert end

//Delete start
if(isset($_POST["delete"]))
{
    $id=$_POST["id"];
    $name=$_POST["name"];
    $sess=$_POST["session"];
    $delete="delete from semester_reg where ID='$id'and Name='$name' and Session='$sess'";
    $result=mysqli_query($connect,$delete);
    if($result==1)
    {
        echo"Successfully delete your record!";
    }
    else
    {
        echo"Unsucess";
    }
} //Delete end

//update start
if(isset($_POST["update"]))
{
    $id=$_POST["id"];
    $name=$_POST["name"];
    $sess=$_POST["session"];
    $phone=$_POST["ph_number"];
    $city=$_POST["city"];
    $gender=$_POST["gender"];
    $insert="update semester_reg set Name='$name',Session='$sess',Ph_Num='$phone',
City='$city',Gender='$gender' where ID='$id'";
    $result=mysqli_query($connect,$insert);
    if($result==1)
    {
        echo"Successfully updated your record!";
    }
}

```

```

    }
    else
    {
        echo"Unsucess";
    }
} //update end

//show data start
if(isset($_POST["select"])){

$query="SELECT * FROM semester_reg"; //ORDER BY id ASC";
$result=mysqli_query($connect,$query);
if($result==true){
    echo "All Registered Students List <br>";
    echo "<table cellpadding=10 border='1'>
    <tr>
    <th>ID</th>
    <th>Name</th>
    <th>Session</th>
    <th>Phone Number</th>
    <th>City</th>
    <th>Gender</th>
    </tr>";
    if(mysqli_num_rows($result) > 0)
    {
        while($row = mysqli_fetch_array($result))
        {

            echo "<tr>";
            echo "<td style='color:black'>" . $row['ID'] . "</td>";
            echo "<td style='color:black'>" . $row['Name'] . "</td>";
            echo "<td style='color:black'>" . $row['Session'] . "</td>";
            echo "<td style='color:black'>" . $row['Ph_Num'] . "</td>";
            echo "<td style='color:black'>" . $row['City'] . "</td>";
            echo "<td style='color:black'>" . $row['Gender'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";

    }
} else
{
    echo "No record found!";
}
}
//end of show data

?>
<html>
<head>
    <title>Student Registration Form</title>
    <style type="text/css">
        body{

```

```

        text-align: center;
        font-size: 25px;
    }
    input{
        font-size: 20px;
    }
    table
    {
        margin: auto;
        font-size: 20px;
    }
</style>
</head>
<body>
    <h2>Student's Registration Form </h2>
    <form method="post" action="">
    <table border="0" style="text-align:left" >
        <tr>
            <th >ID</th>
            <td><input type="text" name="id" required></td>
        </tr>
        <tr>
            <th>Name</th>
            <td><input type="text" name="name" required></td>
        </tr>
        <tr>
            <th>Session</th>
            <td><input type="text" name="session" required></td>
        </tr>
        <tr>
            <th >Phone Number</th>
            <td><input type="text" name="ph_number"></td>
        </tr>
        <tr>
            <th >City</th>
            <td><input type="text" name="city" value="" ></td>
        </tr>
        <tr>
            <th>Gender</th>
            <td><input type="radio" name="gender" value="Male" checked> Male
                <input type="radio" name="gender" value="Female"> Female
            </td>
        </tr>
        <tr>
            <td colspan="4">
                <input type="submit" name="insert" value="Insert">
                <input type="submit" name="delete" value="Delete">
                <input type="submit" name="update" value="Update">
                <input type="submit" name="select" value="Show">
            </td>
        </tr>
    </table>

```



```

        <br>
        <label style="color:red">N.B. </label> 1. To delete a record please enter your ID,
Name and Session.<br>
        2. You can update all information except ID Number. <br>
        3.To show all record enter your ID, Name and Session.

</form>

</body>
</html>

```

## Output:

Successfully insert a record!

Successfully updated your record!

## Student's Registration Form Student's Registration Form

<b>ID</b>	<input type="text" value="200613"/>
<b>Name</b>	<input type="text" value="Rashedul Islam"/>
<b>Session</b>	<input type="text" value="2019-2020"/>
<b>Phone Number</b>	<input type="text" value="01780340222"/>
<b>City</b>	<input type="text" value="Bhola"/>
<b>Gender</b>	<input checked="" type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Insert"/>	<input type="button" value="Delete"/>
<input type="button" value="Update"/>	<input type="button" value="Show"/>

<b>ID</b>	<input type="text" value="200613"/>
<b>Name</b>	<input type="text" value="Rashedul"/>
<b>Session</b>	<input type="text" value="2019-2020"/>
<b>Phone Number</b>	<input type="text" value="01780340222"/>
<b>City</b>	<input type="text" value="Bhola"/>
<b>Gender</b>	<input checked="" type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Insert"/>	<input type="button" value="Delete"/>
<input type="button" value="Update"/>	<input type="button" value="Show"/>

Successfully delete your record!

## Student's Registration Form

<b>ID</b>	<input type="text" value="200613"/>
<b>Name</b>	<input type="text" value="Rashedul Islam"/>
<b>Session</b>	<input type="text" value="2019-2020"/>
<b>Phone Number</b>	<input type="text" value="01780340222"/>
<b>City</b>	<input type="text" value="Bhola"/>
<b>Gender</b>	<input checked="" type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Insert"/>	<input type="button" value="Delete"/>
<input type="button" value="Update"/>	<input type="button" value="Show"/>

All Registered Students List

ID	Name	Session	Phone Number	City	Gender
200613	Rashedul Islam	2019-2020	01780340222	Barisal	Male
200613	Rashedul Islam	2019-2020	01780340222	Bhola	Male

## Experiment No: 10

### Experiment Name:

A. Solve the following **Task-1** and **Task-2**.

**Task-1:** Create a database called **Programmer-** in XAMPP MySQL.

**Task-2:** Create a table called **Stu\_Reg** in the **Programmer** database having the structure as shown below.

Field name	Data type	Requirement
ID	Varchar (30)	Mandatory and primary key
Name	Text	Optional
Image	Varchar(400)	Optional
Password	Number/ Varchar (20)	Mandatory

B. Solve the following **P** marked tasks.

**Task 3:** Insert some sample data into **Stu\_Reg** table including an encryption algorithm to secure the password.

**Task 4:** Write a PHP program to show the all records of **Stu\_Reg** table.

**Task 5:** Delete single sample record from **Stu\_Reg** table using PHP program.

### Objectives:

- To know how delete data in database using php
- To know how insert data in database with image using php
- To know how create a database.
- 

### Code:

```
<?php
$connect=mysqli_connect("localhost","root","","Programmer");
//Insert start
if(isset($_POST["insert"]))
{
    $id=$_POST["id"];
    $name=$_POST["name"];
    //image
    $img=$_FILES["img"]["name"];
    // $extention=pathinfo($img,PATHINFO_EXTENSION); Use to rename the image
    // $img_new_name=$id.'.'.$extention;
    $password=$_POST["password"];
    //encrypt your password
    $pass = md5($password);
    //echo $password;
```

```

$insert="INSERT INTO Stu_Reg(ID,Name,Image>Password) VALUES
('$id','$name','images/$img', '$pass')";
$result=mysqli_query($connect,$insert);
//upload image
    move_uploaded_file($_FILES['img']['tmp_name'], "images/" .
$_FILES['img']['name']);
    if($result==1)
    {
        echo"Successfully insert your record!";
    }
    else
    {
        echo"Unsucess";
    }
} //insert End
//delete start
if(isset($_POST['delete']))
{
    $id = $_POST['id'];
    $password = $_POST['password'];
    $pass=md5($password);
    $query="SELECT * FROM Stu_Reg where ID = '$id' and Password='$pass'";
    $result=mysqli_query($connect,$query);
    $row = mysqli_fetch_array($result);
    $query = "DELETE FROM Stu_Reg where ID = '$id' and Password='$pass'";
    $execute = mysqli_query($connect,$query);
    if($execute)
    {
        //remove image

        $image=$row['Image'];
        unlink("$image");
        echo "Succesfully deleted your record";
    }
    else
{
    echo "Unsucess";
}
} //delete end
//show data from database
if(isset($_POST["select"])){

$query="SELECT * FROM Stu_Reg"; //ORDER BY id ASC";
$result=mysqli_query($connect,$query);
    if(mysqli_num_rows($result) > 0)
    {
        ?>
        <table cellpadding=10 border='1'>
        <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Image</th>
        </tr>
        <?php

```

```

while($row = mysqli_fetch_array($result))
{
    ?>
    <tr>
    <td style='color:black'><?php echo $row['ID']?></td>
    <td style='color:black'><?php echo $row['Name']?></td>
    <td style='color:black'> </td>
    </tr><?php
}
?>
</table>
<?php
}
else
{
    echo "No Data Found!";
}
}

//end of show database
?>
<html>
<head>
<script>
function change(event)
{
    var output=document.getElementById('image_change');
    output.src=URL.createObjectURL(event.target.files[0]);
}
</script>
<style type="text/css">
    table
    {
        margin: auto;
        font-size: 25px;
        text-align: left;
    }
    input
    {
        font-size: 20px;
        width: 100%;
    }
    button
    {
        width: 100%;
        font-size: 20px;
        background-color: red;
        color: white;
        cursor: pointer;
    }
</style>
</head>

```

```

<body>
  <h1 style="text-align:center;">Programmer Registration Form</h1>
  <form method="post" action="" enctype="multipart/form-data">
    <table border="0">
      <tr>
        <th>ID:</th>
        <td colspan="2"><input type="text" name="id" required> </td>
      </tr>
      <tr>
        <th>Name:</th>
        <td colspan="2"><input type="text" name="name"></td>
      </tr>
      <tr>
        <th colspan="3"></th>
      </tr>
      <tr>
        <th>Image:</th>
        <td><input type="file" name="img" id="img_id" onchange="change(event)"></td>
      </tr>
      <tr>
        <th>Password:</th>
        <td colspan="2"><input type="password" name="password" required></td>
      </tr>
      <tr>
        <th><button name="insert">Insert</button></th>
        <th><button name="select">Show</button></th>
        <th><button name="delete">Delete</button></th>
      </tr>
      <tr>
        <td colspan="3">
          N.B. 1. To delete a record enter your ID and Password.<br>
          2. To show all records enter your ID and Password.
        </td>
      </tr>
    </table></form></body></html>

```

## Output:

### Programmer Registration Form

ID:	<input type="text" value="200613"/>
Name:	<input type="text" value="Rashedul Islam"/>
	
Image:	<input type="button" value="Choose File"/> IMG_20211013_174324.jpg
Password:	<input type="password" value="....."/>
<input type="button" value="Insert"/>	<input type="button" value="Show"/> <input type="button" value="Delete"/>

N.B. 1. To delete a record enter your ID and Password.  
 2. To show all records enter your ID and Password.