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

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

```
<!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><i> A test table with merged cells</i></center>
  <center>
   <br>
                       Average 
   Red eyes 
 height
   weight
```

**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.

```
<!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 */
        text-align: center;
        margin: 20px;
   #nav a {
       text-decoration: none;
        margin: 10px;
    }
    /* 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>
     Item 1
        Item 2
        Item 3
        Item 1
        Item 2
        Item 3
        Item 1
        Item 2
        Item 3
     </div>
 </section>
 <!-- services section design -->
<section class="services" id="services">
 <div>
  <h2>Section 2</h2>
  Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
  </div>
```

```
</section>
<!-- portfolio design -->
<section class="portfolio" id="portfolio">
<div>
   <h2>Section 3</h2>
   Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
   </div>
</section>
<!-- About Sectiton Design -->
<section class="about" id="about">
  <div>
   <h2>Section 4</h2>
    Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
   </div>
</section>
<!-- Form Section Design -->
<section class="contact" id="contact">
  <div>
   <h2>Section 5</h2>
    Item 1
     Item 2
     Item 3
     Item 1
     Item 2
     Item 3
```

**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.

PHP code:

```
$connect=mysqli_connect("localhost","root","","personal_info");
//require();
//Insert start
if(isset($_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="">
First Name
      <input type="text" name="first_name" required>
      Email
        <input type="text" name="email" required>
      Password
        <input type="text" name="password">
      Gender
        <input type="radio" name="gender" value="Male" checked> Male
            <input type="radio" name="gender" value="Female"> Female
         >
          <input type="submit" name="insert" value="Submit">
         <br>
</form>
</body>
</html>
```

**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).

```
<!DOCTYPE html>
<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="" onsubmit="return validateForm()">
      First Name
                <input type="text" name="first_name" required>
             Email
                <input type="text" name="email" id="email" required>
             Password
                <input type="password" name="password" id="password">
```

```
Gender
                   <input type="radio" name="gender" value="Male" checked> Male
                       <input type="radio" name="gender" value="Female"> Female
                   >
                       <input type="submit" name="insert" value="Submit">
                   </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 ]+$/.test(name)) {</pre>
                   alert("Name should contain alphabets and be at least 6 characters
long.");
                   return false;
               }
               // Validate Password
               if (password.length < 6) {</pre>
                   alert("Password should be at least 6 characters long.");
                   return false;
               }
               // Validate Email
               var emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
               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>
```

**Experiment Name:** Write HTML code to create a frameset with two vertical frames: the first frame is 250 pixelswide. 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* 

#### **Html Code:**

```
//Frameset.html code:
                                                      //ice.html code:
<!DOCTYPE html>
                                                      <!DOCTYPE html>
<html>
                                                      <html lang="en">
<head>
                                                      <head>
  <title>Frameset Example</title>
                                                           <meta charset="UTF-8">
                                                           <meta name="viewport"</pre>
<frameset cols="250,*,*">
                                                      content="width=device-width, initial-
 <!-- Left Vertical Frame -->
                                                      scale=1.0">
  <frame name="left_vertical" src="front.html">
                                                          <title>Document</title>
 <!-- Right Vertical Frameset (Further Divided) -->
  <frameset rows="400,350">
                                                        This is the technology-based department
    <!-- Right Top Frame -->
    <frame name="right_top" src="b_left.html">
                                                      of Pabna University of Science and
                                                      Technology," it indicates that
                                                          the ICE Department at Pabna University
    <!-- Right Bottom Frame -->
    <frame name="right_bottom" src="b_right.html">
                                                      of Science and Technology is focused on
                                                      technology-related fields,
                                                            which may include subjects like
  <!-- This is a fallback content for browsers that don't support
                                                      computer science, information technology,
framesets -->
                                                      electronics, and communication
  <noframes>
    <body>
                                                            engineering.
    </body>
                                                      </body>
                                                      </html>
 </noframes>
</frameset>
</html>
```

# //Left frame code:

# //it.html code:

**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.

```
<!DOCTYPE html>
<html>
<head>
  <title>Odd and Even Numbers</title>
</head>
<body>
  <h1>Odd and Even Numbers</h1>
  d="numberList">
  <script>
    // Get a reference to the  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>
```

**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
```

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

**Experiment Name:** Write a simple calculator program using PHP in single page. **Operations:** Addition, Subtraction, Multiplication, Division.

```
<!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">
        <label for="num2">Enter the second number:</label>
        <input type="text" name="num2" id="num2">
        <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;
```

# **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 2017-		
		2018		
Phone_No	Text	Optional		
City	Text	For example <b>Pabna</b>		
Gender	Text	Only (Male or Female)		

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.

#### **PHP Code:**

```
<?php
//$connect=mysqli_connect("localhost","root","","Student");</pre>
```

```
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 "
>
ID
Name
Session
Phone Number
City
Gender
";
if(mysqli_num_rows($result) > 0)
while($row = mysqli_fetch_array($result))
{
echo "";
echo "" . $row['ID'] ."";
echo "" . $row['Name'] . "";
echo "" . $row['Ph Num'] . "";
echo "" . $row['City'] . "";
echo "" . $row['Gender'] . "";
echo "";
}
echo "";
}
} 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="">
ID
        <input type="text" name="id" required>
       Name
      <input type="text" name="name" required>
       Session
        <input type="text" name="session" required>
       Phone Number
        <input type="text" name="ph_number">
       City
        <input type="text" name="city" value="" >
       Gender
        <input type="radio" name="gender" value="Male" checked> Male
            <input type="radio" name="gender" value="Female"> Female
         <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">
```

# **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	Mandatory		
	(20)			

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.

#### **PHP Code:**

```
<?php
$connect=mysqli_connect("localhost","root","","Programmer");
//Insert start
if(isset($_POST["insert"]))
{
    $id =$_POST["id"];
    $name=$_POST["name"];</pre>
```

```
//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)
```

```
ID
Name
Image
<?php
while($row = mysqli_fetch_array($result))
?>
<?php echo $row['ID']?>
<?php echo $row['Name']?>
      style='color:black'>
                         <img
                                 width=100px
                                              height=80px
                                                           src="<?php</pre>
                                                                       echo
$row['Image']?>">
<?php
}
?>
<?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">
   ID:
         <input type="text"name="id" required> 
      >
         Name:
          <input type="text"name="name">
      <img id="image_change" src="images/man_icon.jpg"</pre>
             height="160px" width="100%" border="1">
      Image:
         <input type="file" name="img" id="img_id"onchange="change(event)">
      Password:
         <input type="password" name="password" required>
      <button name="insert">Insert</button>
         <button name="select">Show</button>
         <button name="delete">Delete</button>
      N.B. 1. To delete a record inter your ID and Password. <br>
            2. To show all records enter your ID and Password.
         </form></body></html>
```