PURBANCHAL UNIVERSITY SCHOOL OF ENGINEERING (PUSOE)

Free and Open-Source Programming (FOSP) Assignment

Submitted To:

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Assignment -1

Question 1.1

Write down the html code to display the following list.

1. English
    i. Literature
    ii. Grammar
2. Computer
    i. Programming
        a. Low Level
        b. High Level
    ii. Database
    iii. Networking

Ans:

```
<!DOCTYPE html>
<head>
    <title>lab1_1</title>
</head>
<body>
    <ol type="1">
        <li>English
            <ol type="i">
            <li>Literature</li>
            <li>Grammer</li>
            </ol>
        </li>

        <li>Computer
            <ol type="i">
                <li>Programming
                    <ol type="a">
                        <li>Low level</li>
                        <li>High level</li>
                    </ol>
```

```
                </li>

                <li>Database</li>
                <li>Networking</li>
            </ol>
        </li>
    </ol>
</body>
</html>
```

Output:

1. English
    i. Literature
    ii. Grammer
2. Computer
    i. Programming
        a. Low level
        b. High level
    ii. Database
    iii. Networking

Queston 1.2

Write the html code to show output as shown below

MARKSHEET				
SUBJECT	MARKS			
FOSP	INTERNAL		EXTERNAL	
	THEORY	PRACTICAL	THEORY	PRACTICAL
	20	50	20	-

Ans:

```
<!DOCTYPE html>
<head>
    <title>lab1_2</title>
</head>
<body>
<style>
    table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
  text-align: center;
  margin: 5px;
  padding: 5px;
}
</style>

<h3>2. write the html code to show output as shown below</h3>

    <table>
  <tr>

    <td colspan="5">MARKSHEET</td>
```

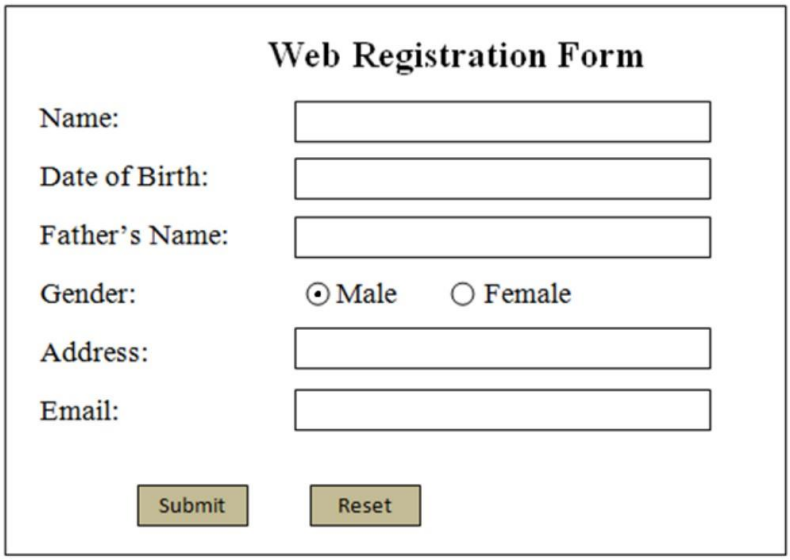
```
  </tr>
  <tr>
    <td>SUBJECT</td>
    <td colspan="4">MARKS</td>
  </tr>


  <tr>
    <td rowspan="3">FOSP</td>
    <td colspan="2">INTERNAL</td>
    <td colspan="2">EXTERNAL</td>
  </tr>

  <tr>
    <td>THEORY</td>
    <td>PRACTICAL</td>
    <td>THEORY</td>
    <td>PRACTICAL</td>
<tr>
    <td>20</td>
    <td>50</td>
    <td>20</td>
    <td>-</td>
</tr>
  </tr>
</table>

</body>
</html>
```

Output:

MARKSHEET				
SUBJECT	MARKS			
FOSP	INTERNAL		EXTERNAL	
	THEORY	PRACTICAL	THEORY	PRACTICAL
	20	50	20	-

Question 1.3

Write down the html code to create form as given below

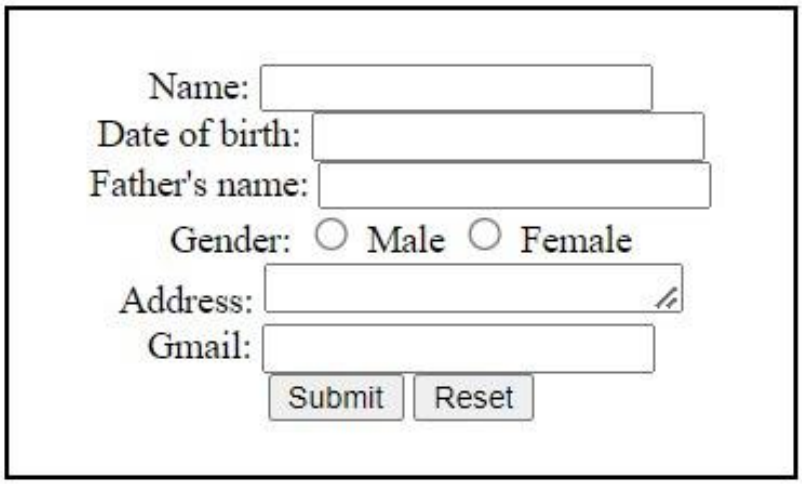


Ans:

```
<!-- write down the html code to crate form as given below -->
<!DOCTYPE html>
<head>
   <title>lab1_3</title>
</head>
<body>
    <h3>write down the html code to create form as given
below</h3>

    <style>
        #container{
            border: 2px solid black;
            padding: 20px;
            width: 250px;
            height: auto;
        }
    </style>
```

```
    <form style="text-align: center;" id="container"
action="#container" >
        <label for="Name">Name: </label>
        <input type="text"><br>

        <label for="DOB">Date of birth:  </label>
        <input type="text"><br>

        <label for="Father's name">Father's name: </label>
        <input type="text"><br>

        <label for="gender">Gender: </label>
        <input type="radio" name="gender" value="male">
        <label for="">Male</label>
        <input type="radio" name="gender" value="female">
        <label for="Female">Female</label><br>

        <label for="Address">Address:      </label>
        <textarea name="address"cols="20" rows="1"></textarea><br>

        <label for="gmail">Gmail:       </label>
        <input type="email"><br>

        <button type="submit">Submit</button>
        <button type="reset">Reset</button>

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

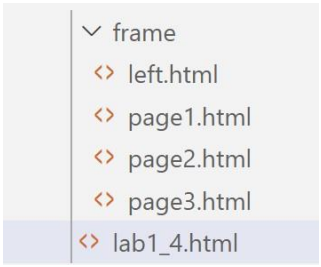
Output:



Question 1.4

Create a specimen of your college webpage. Divide the browser into two frames. The frame on the left will be a menu consisting of hyperlinks. Clicking on any one of these links will lead to a new page which must open in the target frame which is on the right-hand side.

Ans: file set like this.



Left.html

```
<!DOCTYPE html>
<head>
    <title>menu</title>
</head>
<body>
    <ol type="1">
        <li><a href="page1.html" target="right">page 1</a></li>
        <li><a href="page2.html" target="right">page 2</a></li>
        <li><a href="page3.html" target="right">page
3</a></li>
    </ol>
</body>
</html>
```

1. page 1
2. page 2
3. page 3

Page1.html

```
<!DOCTYPE html>
<head>
   <title>page1</title>
```

this is page 1

```
</head>
<body>
    <p>this is page 1</p>
</body>
</html>
```

Page2.html

```
<!DOCTYPE html>
<head>
   <title>page2</title>
</head>
<body>
    <p>this is page 2</p>
</body>
</html>
```

this is page 2

Page3.html

```
<!DOCTYPE html>
<head>
   <title>page2</title>
</head>
<body>
    <p>this is page 3</p>
</body>
</html>
```

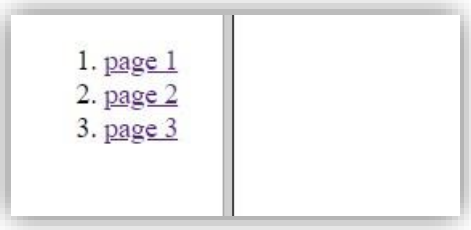
this is page 3

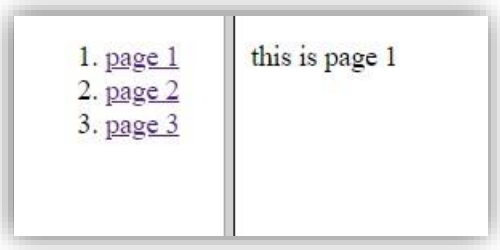
Page output: lab1_4.html

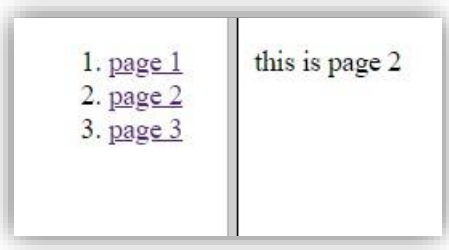
```
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Frames</title>
  </head>
```

```
  <frameset cols="30%, 70%">
    <frame name="left" src="../lab1_4/frame/left.html" />
    <frame name="right"/>
    <noframes>
      <body>
        Your browser does not support frames.
      </body>
    </noframes>
  </frameset>
</html>
```

Output:







Question 1.5 and 1.6

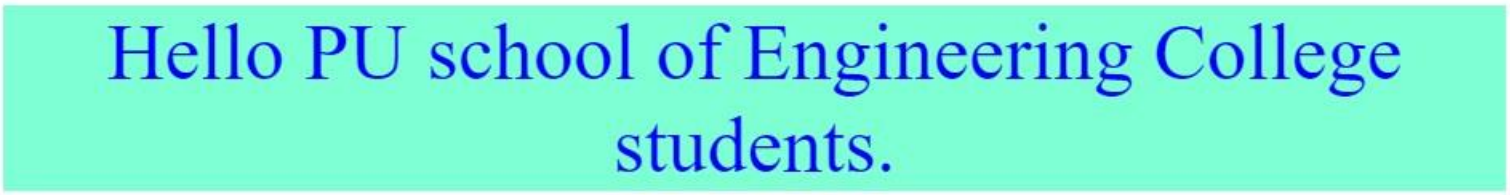
- Demonstrate the concept of inline CSS and external CSS
- Demonstrate the concept of class selector and ID selector in CSS

Ans:

```
<!-- inline CSS -->
<!DOCTYPE html>
<head>
```

```
   <title>inline css</title>
</head>
<body style="text-align: center; color: blue; font-size:
40px;">      <!-- this is inline css -->
    <p style="background-color: aquamarine;">Hello PU school of
Engineering College students.</p>
</html>
```

Output:



Question 1.6

Demonstrate the concept of class selector and ID selector in CSS

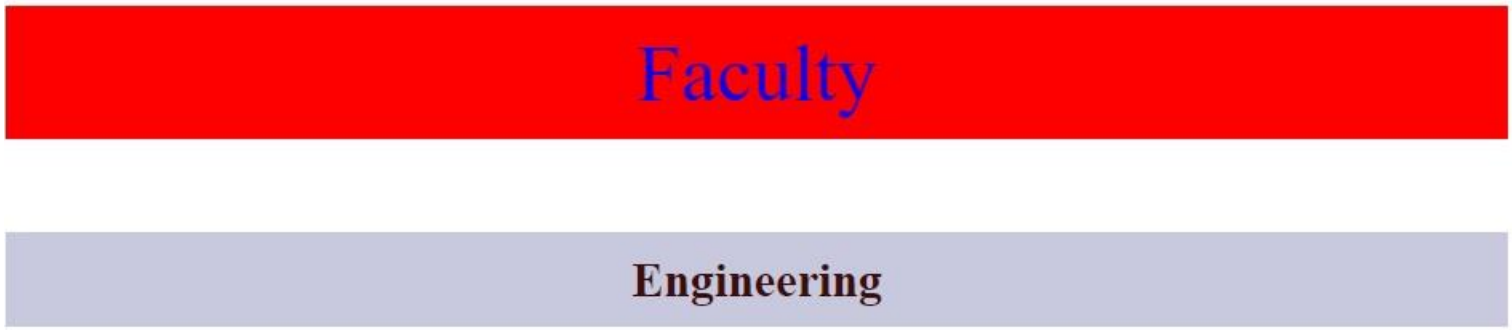
```
<!DOCTYPE html>
<head>
   <title>external css</title>
   <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="content">Faculty</div><br>       <!-- this is
class selector -->
    <div id="details">Engineering</div>         <!-- this is id
selector -->
</body>
</html>
```

This is external css file named as style.css

```
/* this is external css */
```

```css
.content{
    background-color: red;
    font-size: 40px;
    text-align: center;
    padding: 10px;
}

#details{
    font-weight: 900;
    color: rgb(59, 13, 13);
    background-color: rgb(200, 200, 222);
    font-size: 24px;
    text-align: center;
    padding: 10px;
}
```

Output:



Lab – 2

Question 2.1

WAP to display output like the following:

N	10*N	100*N	1000*N
1	10	100	1000

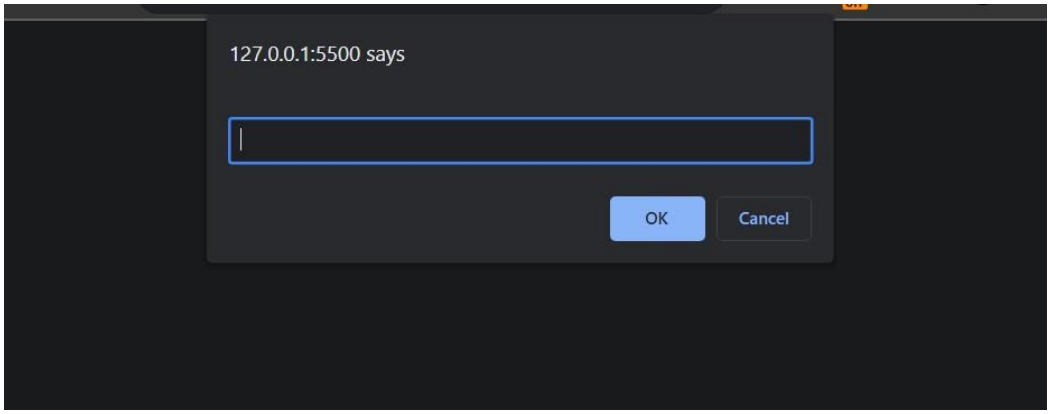
You should ask the starting and ending value for N and the table should be displayed dynamically according to the value inputted by the user.

Ans:

```
<!DOCTYPE html>
  <head>
    <title>lab2</title>
  </head>
  <body>
    <style>
    table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
  text-align: center;
  margin: 5px;
  padding: 5px 30px;
}
</style>

    <table>
      <tr>
        <td id="td1"></td>
        <td id="td2"></td>
        <td id="td3"></td>
        <td id="td4"></td>
```

```
      </tr>

      <tr>
        <td>1</td>
        <td>10</td>
        <td>100</td>
        <td>1000</td>
      </tr>
    </table>

    <script>
      const number = prompt();
      td1 = document.getElementById("td1").innerText = number * 1;
      td2 = document.getElementById("td2").innerText = number *
10;
      td3 = document.getElementById("td3").innerText = number *
100;
      td4 = document.getElementById("td4").innerText = number *
1000;
    </script>
  </body>
</html>
```

Output:



5	50	500	5000
1	10	100	1000

Question 2.2

WAP that will show a text box and 2 radio buttons named start and stop. When start is clicked then display the current time in textbox. The time will be stopped while the user selects the stop radio button.

Ans:

```
<!DOCTYPE html>
<html>
<head>
    <title>lab2_2</title>
    <style>
        .container {
            text-align: center;
            margin: 150px;
        }
        #timeBox{
            text-align: center;
            border: 2px solid rgb(110, 80, 219);
            border-radius: 10px;
            font-size: 16px;
            padding: 5px;
            height: 20px;
            width: 200px;
        }
        #startRadio, .stopRadio{
            height: 50px;
            width: 50px;
            margin: 20px 10px;
        }
    </style>
</head>
<body>
```

```
    <div class="container">

        <h1><u> Stopwatch</u></h1>
        <input type="text" id="timeBox" disabled>
        <br>
        <input type="radio" id="startRadio" name="timeRadio"
onclick="startTimer()">
        <label id="startlabel"
for="startRadio"><b>Start</b></label>

        <input id="stoplabel" type="radio" class="stopRadio"
name="timeRadio" onclick="stopTimer()">
        <label for="stopRadio"><b>Stop</b></label>
    </div>

    <script>
        var timer;

        function startTimer() {
            timer = setInterval(displayTime, 1000); // Update
every second (1000 milliseconds)
        }

        function stopTimer() {
            clearInterval(timer);
        }
        function displayTime() {
            var currentTime = new Date();
            var hours = currentTime.getHours();
            var minutes = currentTime.getMinutes();
            var seconds = currentTime.getSeconds();
            var timeString = hours + ":" + minutes + ":" +
seconds;
            document.getElementById("timeBox").value = timeString;
        }
```

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

Question 2.3

WAP to create two textboxes and two buttons. If the user inputs the value in first textbox and click upon the button then the value entered into the first textbox should be displayed into second textbox (in uppercase if the user inputted in lowercase and vice-versa), similarly for the second textbox.

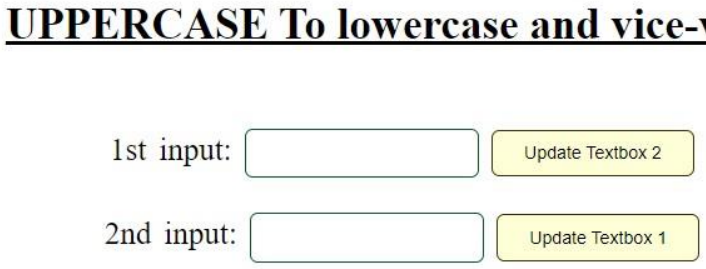
Ans:

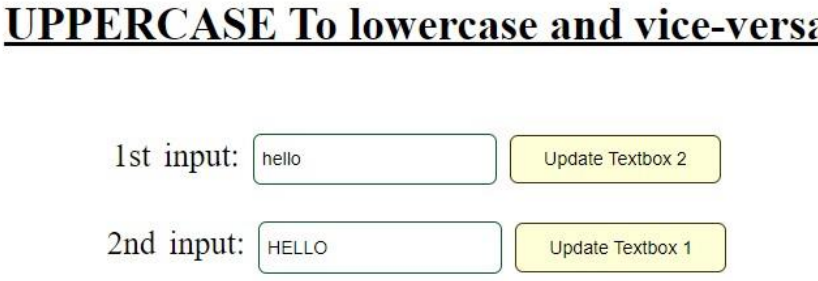
```
<!DOCTYPE html>
<html>
<head>
    <title>UPPERCASE To lowercase and vice-versa</title>
    <script>
        function reverseCase(input) {
            return input.split('').map(function(char) {
                if (char === char.toUpperCase()) {
                    return char.toLowerCase();
                } else {
                    return char.toUpperCase();
                }
            }).join('');
        }

        function updateTextbox() {
            var textbox1 = document.getElementById('textbox1');
            var textbox2 = document.getElementById('textbox2');
```

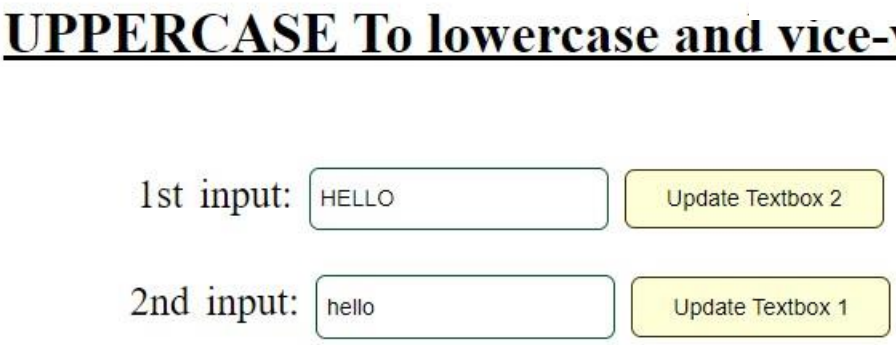
```
            var inputText = textbox1.value;
            var reversedText = reverseCase(inputText);
            textbox2.value = reversedText;
        }

        function updateTextbox2() {
            var textbox1 = document.getElementById('textbox1');
            var textbox2 = document.getElementById('textbox2');
            var inputText = textbox2.value;
            var reversedText = reverseCase(inputText);
            textbox1.value = reversedText;
        }
    </script>
</head>
<body style="margin-top: 100px;">
    <style>
        .container{
            text-align: center;
            font-size: 20px;
            word-spacing: 3px;
            margin-top: 50px;
        }
        #textbox1, #textbox2{
            height: 20px;
            border: 1px solid rgb(5, 88, 38);
            border-radius: 5px;
            padding: 5px;
        }
         button{
            height: 30px;

            border: 1px solid rgb(65, 48, 3);
            background-color: rgb(254, 255, 215);
            border-radius: 5px;
            padding: 5px 20px;
```

```
        }


    </style>
    <h1><u><center> UPPERCASE To lowercase and vice-
versa</center></u></h1>
    <div class="container">
        <label for="textbox1">1st input:</label>
        <input type="text" id="textbox1">
        <button onclick="updateTextbox()">Update Textbox
2</button>
        <br><br>
        <label for="textbox2">2nd input:</label>
        <input type="text" id="textbox2">
        <button onclick="updateTextbox2()">Update Textbox
1</button>
    </div>

</body>
</html>
```

Output:

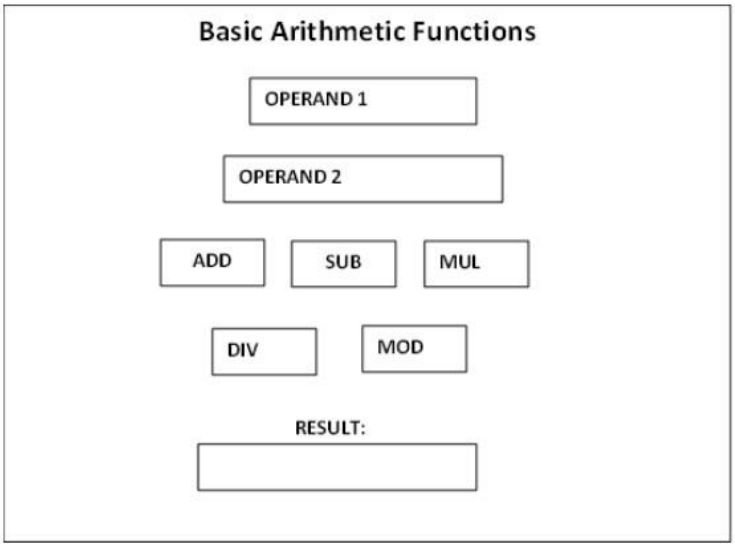






Question 2.4

Design the following form in HTML and display the value in result box after calculating basic arithmetic operations based on the user input w



Ans:

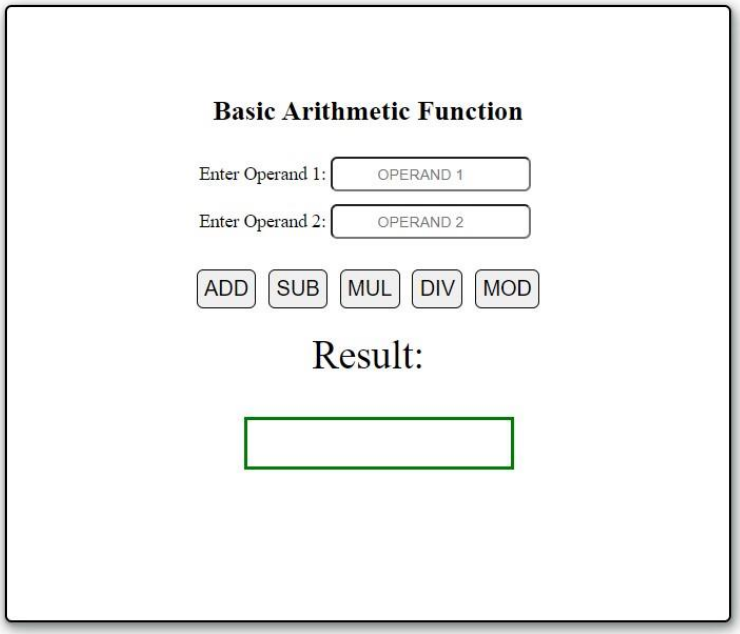
```
<!DOCTYPE html>

<head>
    <title>Calculator</title>
</head>
<body>

    <style>
        #container{
            text-align: center;
            border: 2px solid black;
            border-radius: 5px;
            margin:100px;
            padding: 50px;
            box-shadow: 0px 1px 2px 0px rgba(132, 140, 140, 0.7),
            1px 2px 4px 0px rgba(132, 140, 140, 0.7),
            2px 4px 8px 0px rgba(132, 140, 140, 0.7),
```

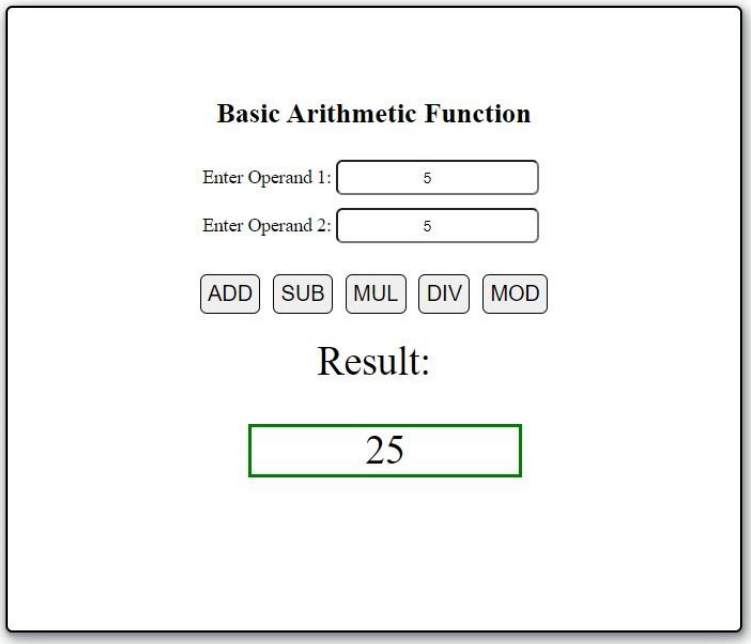
```
        2px 4px 16px 0px rgba(132, 140, 140, 0.7);;
    }
    #operand1, #operand2{
        margin: 5px 5px 5px 0px;
        padding: 5px;
        text-align: center;
        border-radius: 5px;
    }

    #operation{
        margin: 10px;
        padding: 5px;
    }

    #operation #add, #sub, #mul, #div, #mod{
        margin: 3px;
        font-size: 16px;
        border: 1px solid black;
        border-radius: 5px;
        padding: 5px;
    }

    #resultView{
        font-size: 30px;
    }
    #result{
        border: solid green 3px;
        height: 35px;
        width: 200px;
        margin-left: 130px;
    }
</style>

<div id="container">
```

```
        <div id="inputs">
            <h2>Basic Arithmetic Function</h2>
            <label for="num1">Enter Operand 1:</label>
            <input type="number" placeholder="OPERAND 1"
name="OPERAND 1" id="operand1"><br>
            <label for="num2">Enter Operand 2:</label>
            <input type="number" placeholder="OPERAND 2"
name="OPERAND 2" id="operand2"><br>
        </div>

        <div id="operation">
             <button id="add" name="addition"
onclick="calculate('add')">ADD</button>

            <button id="sub" name="subtraction"
onclick="calculate('subtract')">SUB</button>

            <button id="mul" name="multiplication"
onclick="calculate('multiply')">MUL</button>

            <button id="div" name="division"
onclick="calculate('divide')">DIV</button>

            <button id="mod" name="modulus"
onclick="calculate('mod')">MOD</button>
        </div>
        <div id="resultView">
            <label for="">Result: </label>
            <p id="result"></p>
           <br>
        </div>
    </div>

    <script>
        function calculate(operation) {
```

```
        const num1 =
parseFloat(document.getElementById('operand1').value);
        const num2 =
parseFloat(document.getElementById('operand2').value);
        let result;

        switch (operation) {
            case 'add':
            result = num1 + num2;
            break;
        case 'subtract':
            result = num1 - num2;
            break;
        case 'multiply':
            result = num1 * num2;
            break;
        case 'divide':
            result = num1 / num2;
            break;
        case 'mod':
            if(num1 > num2){
                result = num1%num2
            }else{
                result = "Infinity";
            };
            break;
        default:
            result = 'Invalid operation';
            break;
      }
      document.getElementById('result').textContent = `${result}`;
    }
    </script>
</body>
</html>
```

Output:





Question 2.5

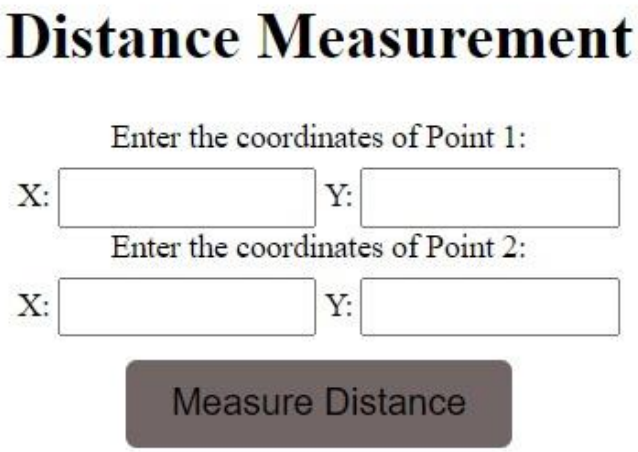
WAP to create textboxes to ask user to enter coordinates of two points and display the distance between the given points.

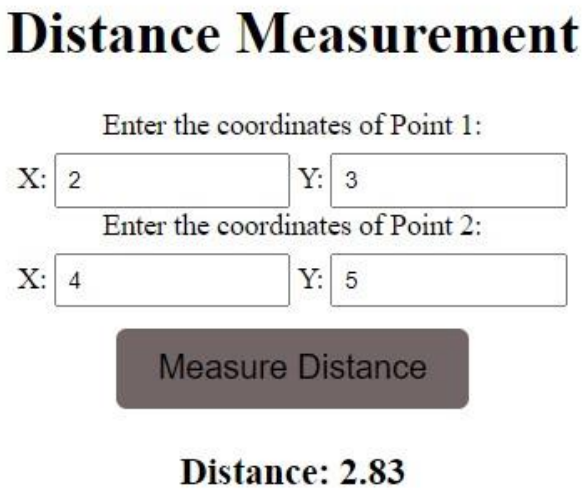
Ans:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Distance Measurement</title>
  <style>
    body {
      text-align: center;
      padding: 20px;
    }
    label {
      display: block;
```

```
      margin-bottom: 5px;
    }
    input[type="number"] {
      width: 100px;
      padding: 5px;
    }
    button {
      margin-top: 10px;
      padding: 10px 20px;
      font-size: 16px;
      background-color: #716565;
      color: #000000;
      border: none;
      border-radius: 5px;
      cursor: pointer;
    }
    #result {
      margin-top: 20px;
      font-size: 18px;
      font-weight: bold;
    }
  </style>
</head>
<body>
  <h1>Distance Measurement</h1>
  <label>Enter the coordinates of Point 1:</label>
  X: <input type="number" id="x1">
  Y: <input type="number" id="y1">
  <br>
  <label>Enter the coordinates of Point 2:</label>
  X: <input type="number" id="x2">
  Y: <input type="number" id="y2">
  <br>
  <button onclick="calculateDistance()">Measure Distance</button>
  <div id="result"></div>
```

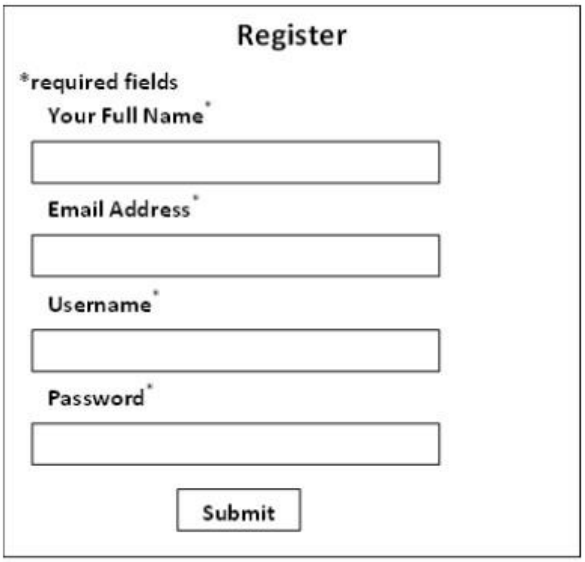
```
  <script>
    function calculateDistance() {
      const x1 = parseFloat(document.getElementById('x1').value);
      const y1 = parseFloat(document.getElementById('y1').value);
      const x2 = parseFloat(document.getElementById('x2').value);
      const y2 = parseFloat(document.getElementById('y2').value);

      // Use the distance formula: distance = sqrt((x2 - x1)^2 +
(y2 - y1)^2)
      const distance = Math.sqrt(Math.pow(x2 - x1, 2) +
Math.pow(y2 - y1, 2));

      document.getElementById('result').textContent = `Distance:
${distance.toFixed(2)}`;
    }
  </script>
</body>
</html>
```





Question 2.6

Design the following form in HTML and perform validation using JavaScript with the following validation rules. a) Length of full name up to 40 characters b) Email address must be valid email address c) Username must start with string followed by number d) Password length must be more than eight characters.



Ans:

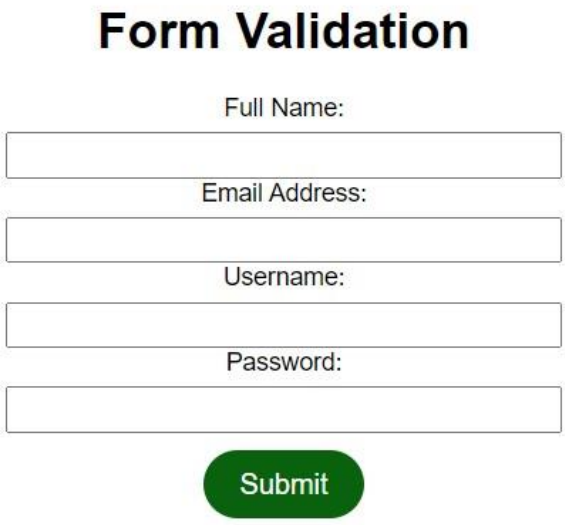
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Validation</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      padding: 20px;
    }
```

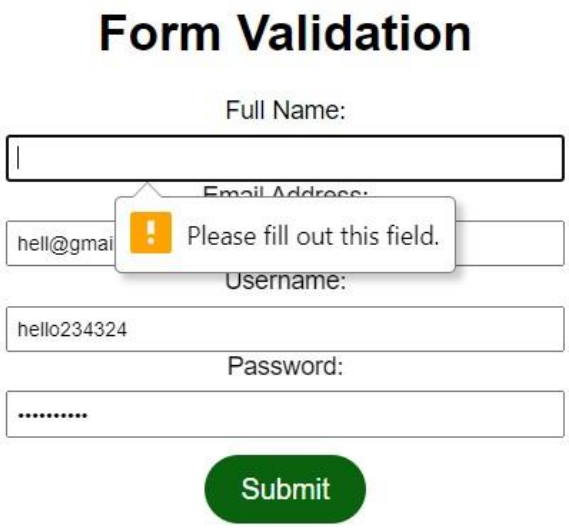
```
    label {
      display: block;
      margin-bottom: 5px;
    }
    input[type="text"],
    input[type="email"],
    input[type="password"] {
      width: 300px;
      padding: 5px;
    }
    button {
      margin-top: 10px;
      padding: 10px 20px;
      font-size: 16px;
      background-color: #0a620e;
      color: #fff;
      border: none;
      border-radius: 50px;
      cursor: pointer;
    }
    #error-message {
      color: red;
      font-weight: bold;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h1>Form Validation</h1>
  <form onsubmit="return validateForm()">
    <label for="full-name">Full Name: </label>
    <input type="text" id="full-name" required maxlength="20">
    <br>
    <label for="email">Email Address: </label>
    <input type="email" id="email" required>
```

```
    <br>
    <label for="username">Username: </label>
    <input type="text" id="username" required pattern="^[a-zA-
Z]+[0-9]+">
    <br>
    <label for="password">Password: </label>
    <input type="password" id="password" required minlength="8">
    <br>
    <button type="submit">Submit</button>
  </form>
  <div id="error-message"></div>

  <script>
    function validateForm() {
      const fullNameInput = document.getElementById('full-name');
      const emailInput = document.getElementById('email');
      const usernameInput = document.getElementById('username');
      const passwordInput = document.getElementById('password');
      const errorMessage = document.getElementById('error-
message');

      // Reset error message
      errorMessage.textContent = '';

      // Validate Full Name (length up to 20 characters)
      if (fullNameInput.value.length > 20) {
        errorMessage.textContent = 'Full Name must be up to 20
characters';
        return false;
      }

      // Validate Email Address (using a simple pattern)
      const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
      if (!emailPattern.test(emailInput.value)) {
        errorMessage.textContent = 'Invalid Email Address';
```

```
        return false;
      }

      // Validate Username (starting with a string followed by a
number)
      const usernamePattern = /^[a-zA-Z]+[0-9]+$/;
      if (!usernamePattern.test(usernameInput.value)) {
        errorMessage.textContent = 'Username must start with a
letter and be followed by a number';
        return false;
      }

      // Validate Password (length more than eight characters)
      if (passwordInput.value.length <= 8) {
        errorMessage.textContent = 'Password must be more than
eight characters';
        return false;
      }

      // If all validations pass, the form will be submitted
      return true;
    }
  </script>
</body>
</html>
```

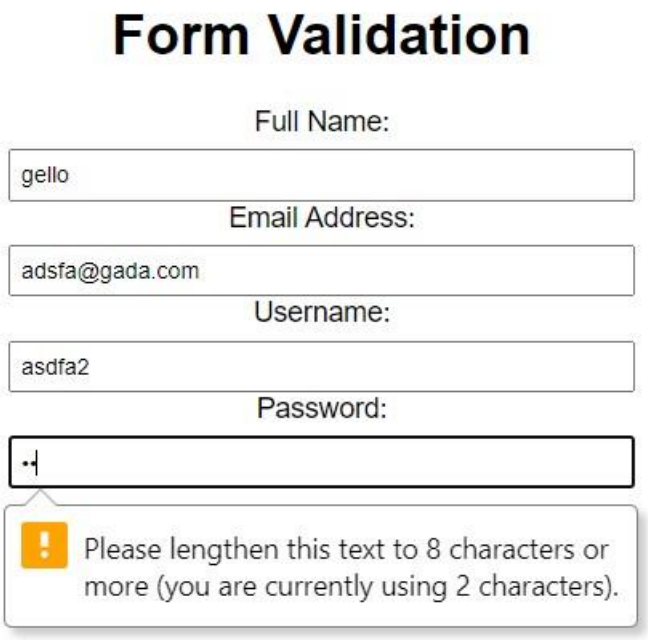
Output:






Form Validation
Full Name:
hello
Email Address:
sdfa
Please include an '@' in the email address. 'sdfa' is missing an '@'.
Submit


Form Validation
Full Name:
hello
Email Address:
sdfa@gmail.com
Username:
agehh
Please match the requested format.
Submit


Form Validation
Full Name:
gello
Email Address:
adsfa@gada.com
Username:
asdfa2
Password:
Please lengthen this text to 8 characters or more (you are currently using 2 characters).

Lab – 3

Question 3.1

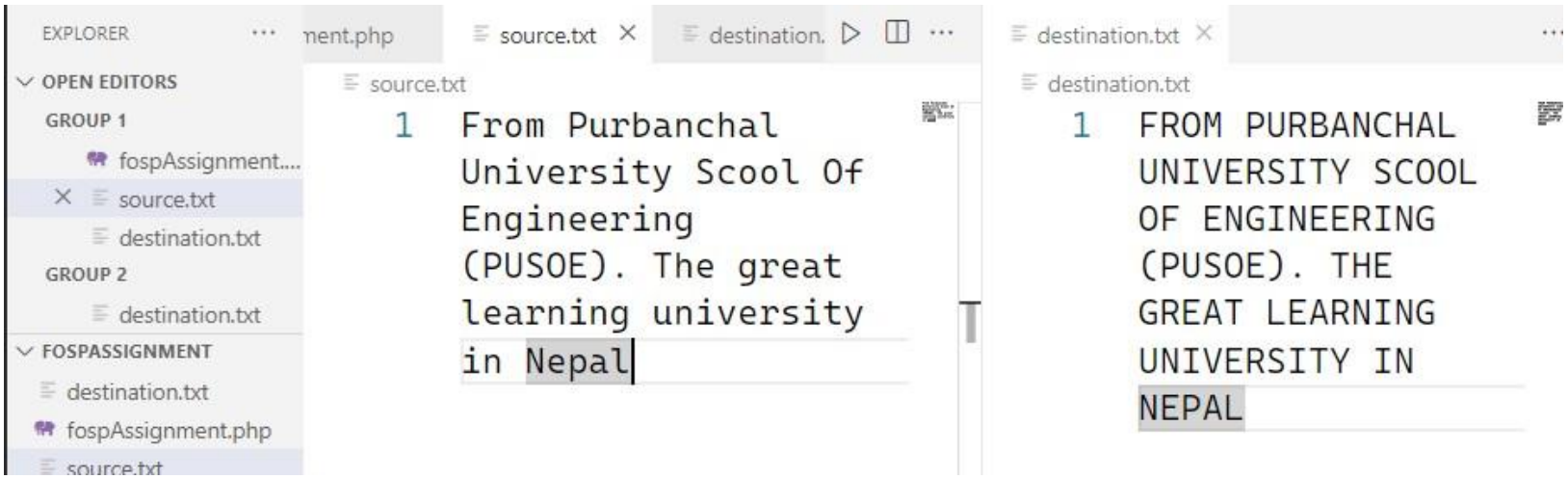
Write a PHP code for writing in source.txt and convert the text in uppercase and copy the content in destination.txt and display in webpage.

Note: I'm using xampp server for localhost in order to view my webpage.

Ans:

```php
<?php
    $f = fopen("Source.txt","w");

    fwrite($f, "From Purbanchal University Scool Of Engineering (PUSOE). The great learning university in Nepal");

    fclose($f);

    $f = fopen("source.txt", "r");
    $fa = fopen("destination.txt","w");
    $filesize = filesize("source.txt");
    $text = fread($f, $filesize);

    fwrite($fa, strtoupper($text));
    fclose($f); fclose($fa);

    echo strtoupper($text);
?>
```

Output:



Question: 3.2

Write a PHP code to store 10 numbers in an array and sort the number in ascending order and display the numbers in a web page.

Ans:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Ascending Sorting</title>
    </head>
    <body>
        <?php
            $numbers = array(5, 8, 2, 9, 1, 3, 7, 4, 6, 10);

            function bubbleSort(&$array){
                $n = count($array);

                for ($i = 0; $i < $n - 1; $i++){
                    for ($j = 0; $j < $n - $i -1; $j++){
                        if ($array[$j] > $array[$j + 1]){
                            $temp = $array[$j];
                            $array[$j] = $array[$j + 1];
                            $array[$j + 1] = $temp;
```

```
                    }
                }
            }
        }

        bubbleSort($numbers);
        echo "<h2>Sorted Numbers:</h2>";
        echo "<br>";
        foreach ($numbers as $number) {
            echo $number;
            echo "<br>";
        }
    ?>
</body>
</html>
```

Output:

Sorted Numbers:

1
2
3
4
5
6
7
8
9
10

Question: 3.3

Assume html form which contain various elements such as name, email, mobile no. and comments. Write a PHP code that verifies that all the textboxes have been filled. If a textbox is empty, pop-up an alert indicating which textbox has been left. When alert's ok button is clicked on, set focus to that specific textbox. If all the text boxes are filled, display thank you message.

Ans:

Note: we have to file named as “formValidation.html” for form and “display_thank_you.php” for display message.

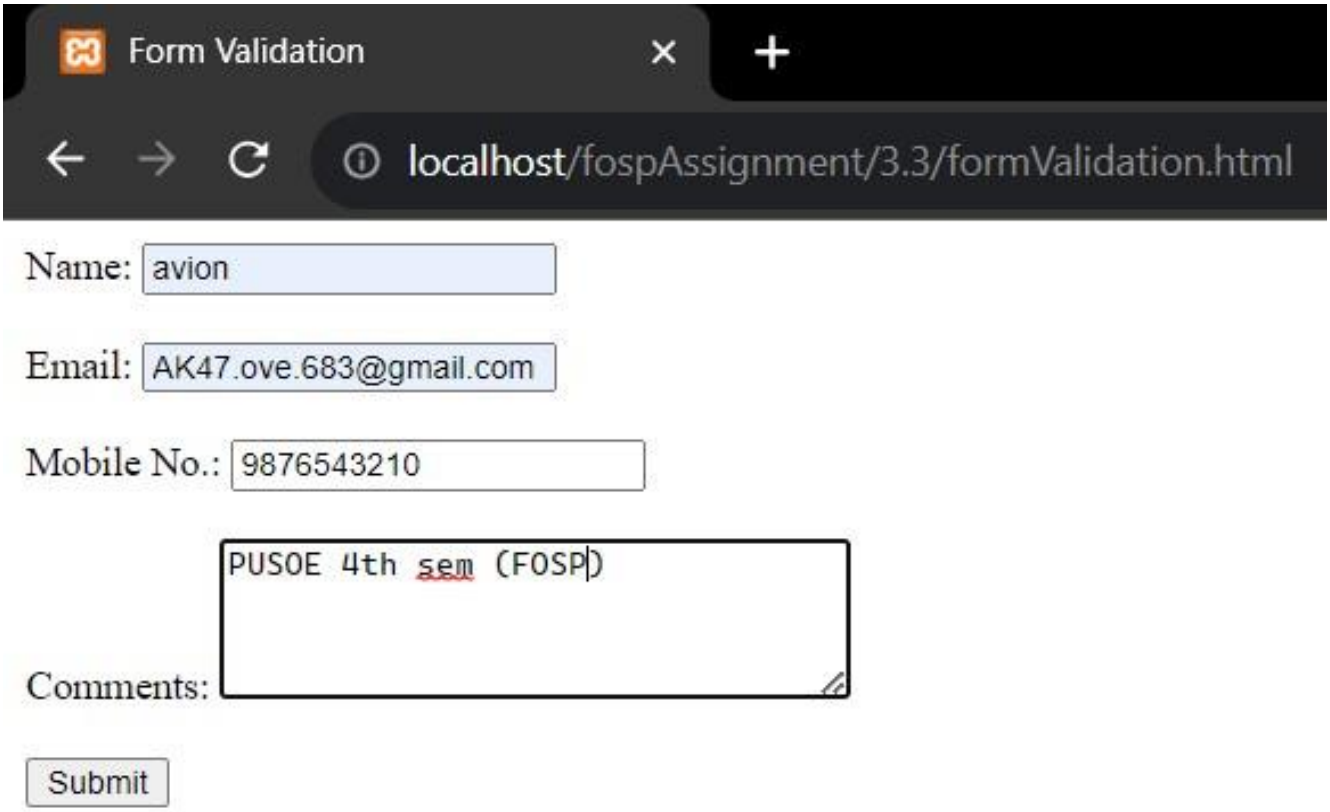
<!--formValidation.html-→

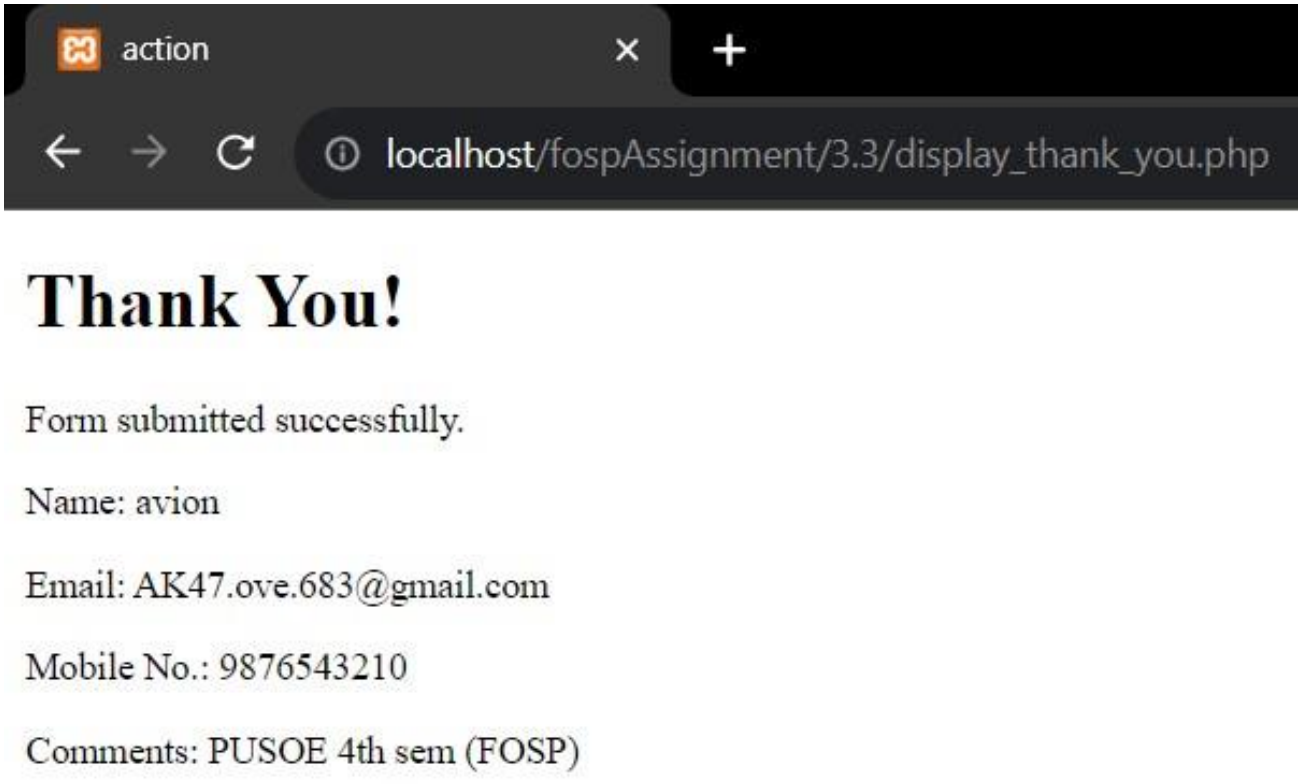
```
<!DOCTYPE html>
<html>
<head>
    <title>Form Validation</title>
</head>
<body>
    <form action="display_thank_you.php" method="post"
onsubmit="return validateForm()">
        <label for="name">Name:</label>
        <input type="text" name="name" id="name">
        <br><br>

        <label for="email">Email:</label>
        <input type="email" name="email" id="email">
        <br><br>

        <label for="mobile">Mobile No.:</label>
        <input type="text" name="mobile" id="mobile">
        <br><br>

        <label for="comments">Comments:</label>
        <textarea name="comments" id="comments" rows="4"
cols="30"></textarea>
        <br><br>

        <input type="submit" value="Submit">
```

```
    </form>

    <script>
        function validateForm() {
            var name = document.getElementById("name").value;
            var email = document.getElementById("email").value;
            var mobile = document.getElementById("mobile").value;
            var comments =
document.getElementById("comments").value;
            var alertMessage = "";

            if (name.trim() === "") {
                alertMessage += "Name field is required.\n";
            }

            if (email.trim() === "") {
                alertMessage += "Email field is required.\n";
            }

            if (mobile.trim() === "") {
                alertMessage += "Mobile No. field is required.\n";
            }

            if (comments.trim() === "") {
                alertMessage += "Comments field is required.\n";
            }

            if (alertMessage !== "") {
                alert(alertMessage);
                return false;
            }
            return true;
        }
    </script>
</body>
```

```
</html>

<!--display thank you message -->
<!DOCTYPE html>
<html>
<head>
    <title>action</title>
</head>
<body>
    <?php
    if ($_SERVER["REQUEST_METHOD"] === "POST") {
        $name = $_POST["name"];
        $email = $_POST["email"];
        $mobile = $_POST["mobile"];
        $comments = $_POST["comments"];

        // Here, you can process the form data or store it in a
database.

        echo "<h1>Thank You!</h1>";
        echo "<p>Form submitted successfully.</p>";
        echo "<p>Name: $name</p>";
        echo "<p>Email: $email</p>";
        echo "<p>Mobile No.: $mobile</p>";
        echo "<p>Comments: $comments</p>";
    }
    ?>
</body>
</html>
```

Output:


Form Validation
localhost/fospAssignment/3.3/formValidation.html
Name: avion
Email: AK47.ove.683@gmail.com
Mobile No.: 9876543210
Comments: PUSOE 4th sem (FOSP)
Submit


action
localhost/fospAssignment/3.3/display_thank_you.php
Thank You!
Form submitted successfully.
Name: avion
Email: AK47.ove.683@gmail.com
Mobile No.: 9876543210
Comments: PUSOE 4th sem (FOSP)

Question 3.4

Write down the SQL Query for the following according to the given ta

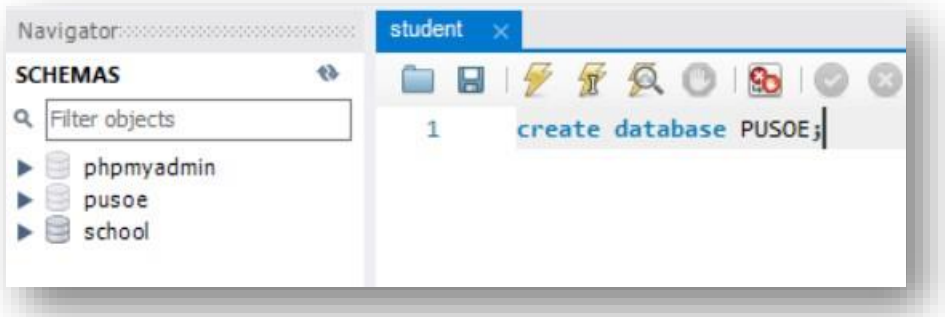
Teacher

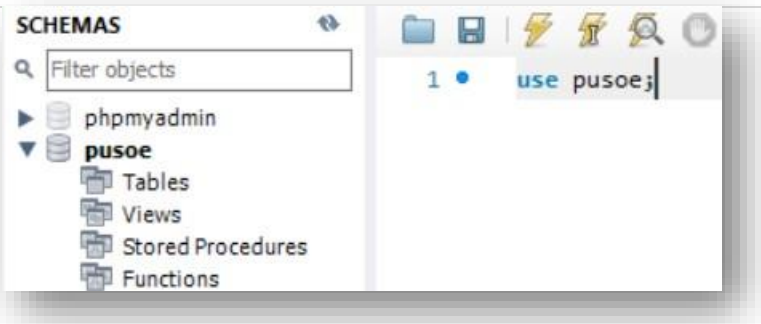
ID No.	Name	Gender	Address	Salary
101	Shiva	Male	Biratnagar	27000
102	Sarita	Female	Kathmandu	25000
103	Sangita	Female	Bhaktapur	15000
104	Sanjay	Male	Biratnagar	23000
105	Shyam	Male	Kathmandu	15000
106	Sushma	Female	Bhaktapur	12000

a. Selecting teacher name that lives in Biratnagar
b. Selecting all female teachers whose name start with 'S'
c. Selecting teacher name whose name start with 'S' and having five characters
d. Selecting all female teachers whose name ends with 'a'
e. Selecting all female teachers whose name starts with 'S' and ends with 'a'.
f. Display teacher name with max and min salary.

Ans:

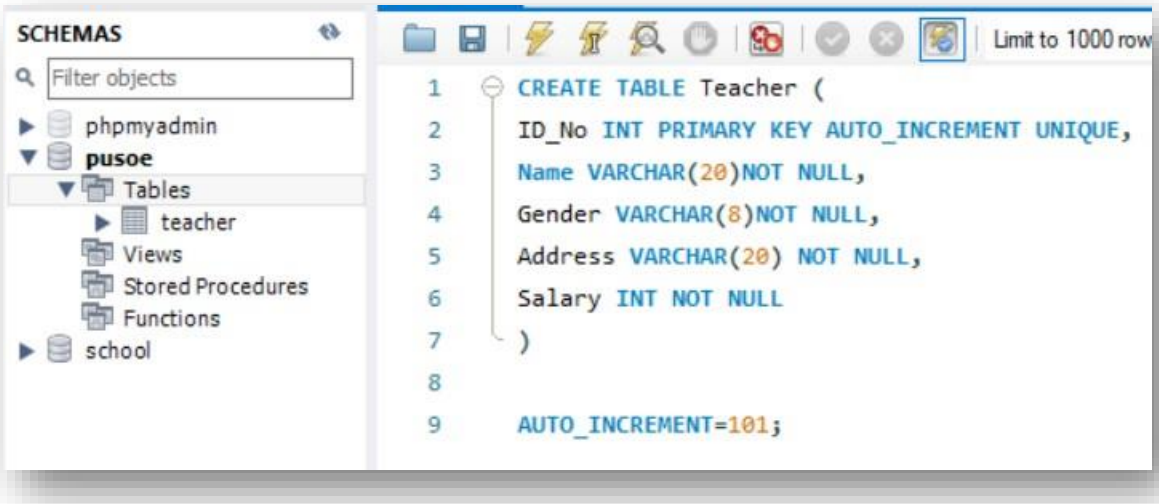
First Create Database and I use mySQL workbench.



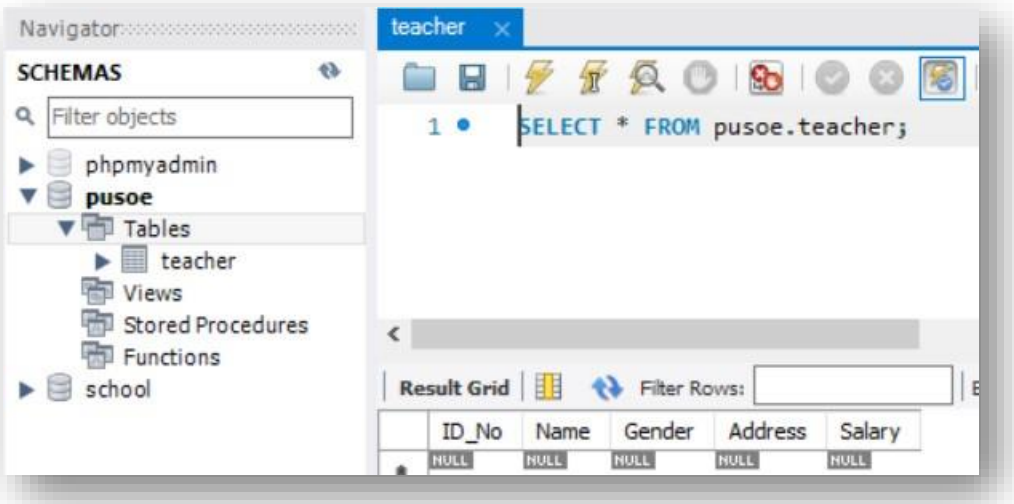


I use to database.

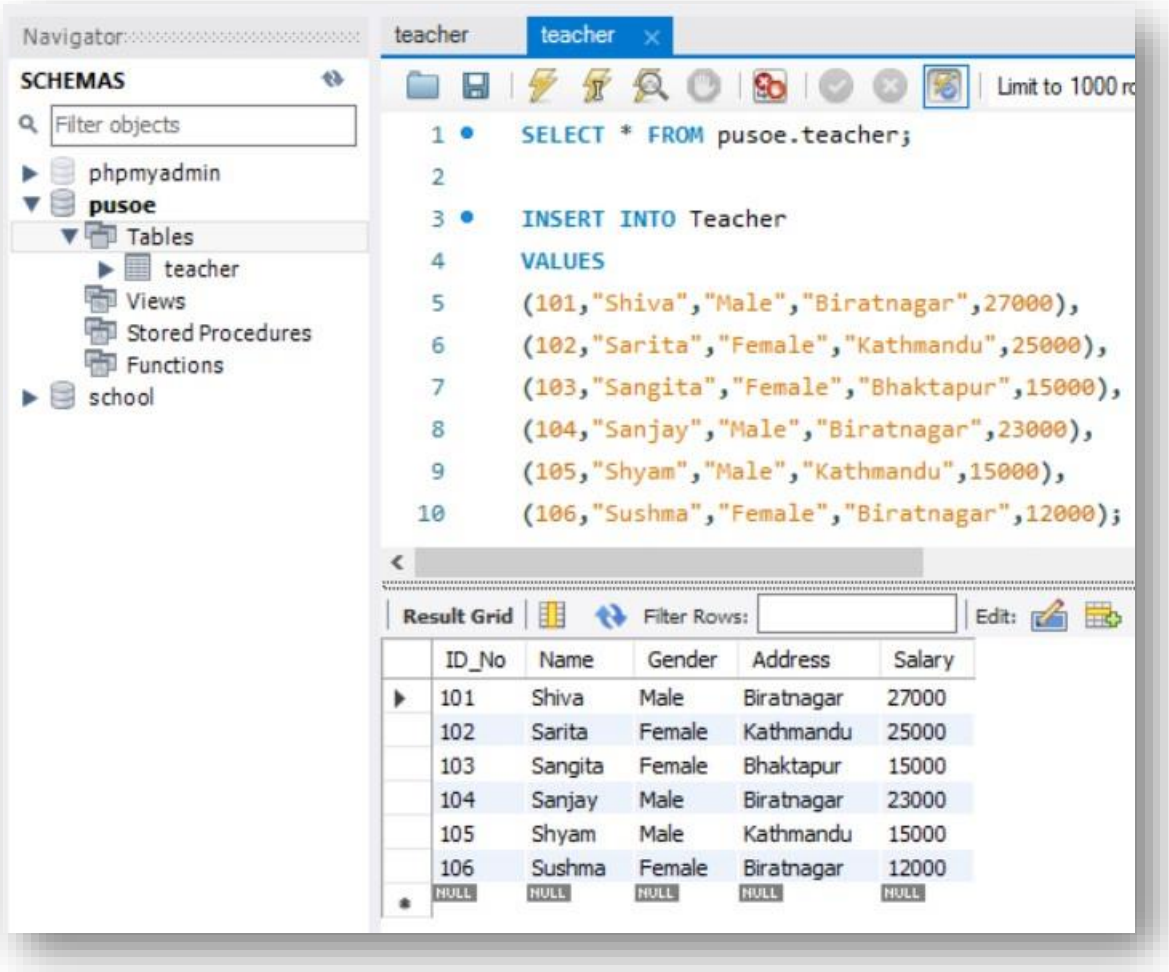
I create table name “Teacher” in PUSOE database.

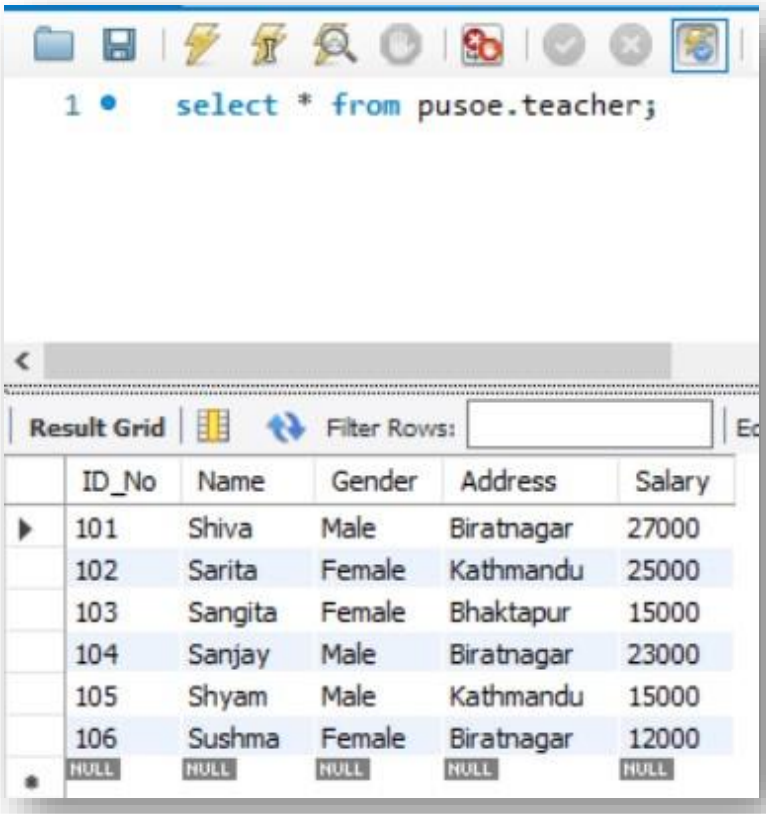


I View the created empty table



I inserted all the values in table.





I view all the inserted values

in the table

a. Selecting teacher name that lives in Biratnagar

```
select Name from pusoe.teacher where Address = "Biratnagar";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Name
Shiva
Sanjay
Sushma

d. Selecting all female teachers whose name ends with ‘a’

```
SELECT *FROM Teacher WHERE Gender="Female" AND Name LIKE '%a';
```

Result Grid | Filter Rows: | Edit: | Export/Import:

ID_No	Name	Gender	Address	Salary
102	Sarita	Female	Kathmandu	25000
103	Sangita	Female	Bhaktapur	15000
106	Sushma	Female	Biratnagar	12000
NULL	NULL	NULL	NULL	NULL

c. Selecting teacher name whose name start with ‘S’ and having five characters

```
select Name from pusoe.teacher where Name like 'S____';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Name
Shiva
Shyam

d. Selecting all female teachers whose name starts with 'S' and ends with 'a'.

```
1 • SELECT *FROM Teacher WHERE Gender="Female" AND Name LIKE 'S%a';
```

Result Grid | Filter Rows: | Edit: | Export/Import:

ID_No	Name	Gender	Address	Salary
102	Sarita	Female	Kathmandu	25000
103	Sangita	Female	Bhaktapur	15000
106	Sushma	Female	Biratnagar	12000
NULL	NULL	NULL	NULL	NULL

e. Display teacher name with max and min salary.

```
1 • SELECT Name FROM Teacher WHERE Salary=(SELECT MAX(Salary) FROM Teacher);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Name
Shiva

```
1 • SELECT Name FROM Teacher WHERE Salary=(SELECT MIN(Salary) FROM Teacher);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Name
Sushma