Experiment No. 4

Problem stmt1:

Display and hide message by using a single button

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Toggle Message</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
 .message {
  display: none;
  padding: 10px;
  background-color: #d4edda;
  border: 1px solid #c3e6cb;
  margin-top: 10px;
 .button {
  padding: 10px 20px;
  background-color: #007bff;
  color: white;
  border: none;
  cursor: pointer;
  border-radius: 5px;
</style>
</head>
<body>
<button class="button" id="toggleButton">Show Message/button>
<div class="message" id="message">This is the message to display!</div>
<script>
 $(document).ready(function(){
  $('#toggleButton').click(function(){
   $('#message').toggle();
   $(this).text($('#message').is(':visible') ? 'Hide Message' : 'Show Message');
</script>
```

```
</body>
```

```
Hide Message

This is the message to display!
```

Problem stmt2:

Create one textarea and one button. On click of the button the length of text entered inside the textarea will be displayed.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Textarea Length</title>
 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
 <style>
 .button {
  padding: 10px 20px;
  background-color: #007bff;
  color: white;
  border: none;
  cursor: pointer;
  border-radius: 5px;
  margin-top: 10px;
  .textarea {
  width: 100%;
  height: 100px;
  padding: 10px;
  margin-bottom: 10px;
 }
 </style>
</head>
<body>
<textarea class="textarea" id="textArea"></textarea>
 <button class="button" id="lengthButton">Show Length/button>
```

```
<div id="lengthDisplay"></div>
<script>
$(document).ready(function(){
    $('#lengthButton').click(function(){
       var textLength = $('#textArea').val().length;
       $('#lengthDisplay').text('Length of text: ' + textLength);
    });
});
</script>
</body>
</html>
```

```
Hello I am Vaishnawi Abhay Chandavale, third year BTech studenT pursueing degree in AI/ML.
```

Show Length Length of text: 90

Problem stmt3:

Create one style class and name it error, give its border colour as red and background colour as yellow. Apply this class to the text box when the focus is moved out of it and if entered data is more than 10.

```
margin-top: 10px;
 .textarea {
  width: 100%:
  height: 100px;
  padding: 10px;
  margin-bottom: 10px;
 }
 .error {
  border: 2px solid red;
  background-color: yellow;
</style>
</head>
<body>
<textarea class="textarea" id="textArea"></textarea>
<button class="button" id="lengthButton">Show Length/button>
<div id="lengthDisplay"></div>
 <script>
 $(document).ready(function(){
  $('#lengthButton').click(function(){
   var textLength = $('#textArea').val().length;
    $('#lengthDisplay').text('Length of text: ' + textLength);
  $('#textArea').blur(function(){
   if ($(this).val().length > 10) {
    $(this).addClass('error');
   } else {
    $(this).removeClass('error');
   }
</script>
</body>
</html>
Output:
```

Hello I am Vaishnawi Abhay Chandavale, third year BTech studenT pursueing degree in AI/ML.

Show Length

Length of text: 90

Problem stmt4:

Count number of rows and columns in a table using jQuery.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Table Row and Column Count</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
 .button {
  padding: 10px 20px;
  background-color: #007bff;
  color: white;
  border: none;
  cursor: pointer;
  border-radius: 5px;
  margin-top: 10px;
 }
 table {
  width: 100%;
  border-collapse: collapse;
  margin-bottom: 20px;
 table, th, td {
  border: 1px solid black;
  padding: 10px;
  text-align: center;
</style>
</head>
<body>
```

```
<thead>
  PRN NO.
  Name
  Skills
  </thead>
 2217021
  Vaishnawi
  C,ML,DL
  2367005
  Falguni
  Python,C,ML
  <button class="button" id="countButton">Count Rows and Columns</button>
<div id="tableCount"></div>
<script>
 $(document).ready(function(){
  $('#countButton').click(function(){
  var rowCount = $('#myTable tbody tr').length;
  var colCount = $('#myTable thead tr th').length;
  $('#tableCount').text('Rows: ' + rowCount + ', Columns: ' + colCount);
</script>
</body>
</html>
```

PRN NO.	Name	Skills
2217021	Vaishnawi	C,ML,DL
2367005	Falguni	Python,C,ML



Problem stmt5:

Create two textboxes and one button with + on it. On click of the button you should display sum of the two entered numbers in textbox. Similarly add Subtract, Multiple and Division buttons

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Arithmetic Operations</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
 .button {
  padding: 10px 20px;
  background-color: #007bff;
  color: white:
  border: none:
  cursor: pointer;
  border-radius: 5px;
  margin: 5px;
 input {
  padding: 10px;
  margin: 5px;
  width: 150px;
</style>
</head>
<body>
<input type="number" id="num1" placeholder="Enter number 1">
<input type="number" id="num2" placeholder="Enter number 2"><br>
<button class="button" id="addButton">+</button>
<button class="button" id="subtractButton">-</button>
<button class="button" id="multiplyButton">*</button>
<button class="button" id="divideButton">/</button>
<div id="result"></div>
 <script>
 $(document).ready(function(){
  function calculate(operator) {
   var num1 = parseFloat($('#num1').val());
   var num2 = parseFloat($('#num2').val());
   var result = 0;
   if (isNaN(num1) || isNaN(num2)) {
```

```
$('#result').text('Please enter valid numbers');
     return;
    switch(operator) {
     case '+': result = num1 + num2; break;
     case '-': result = num1 - num2; break;
     case '*': result = num1 * num2; break;
     case '/': result = num2 !== 0 ? num1 / num2 : 'Cannot divide by zero'; break;
    $('#result').text('Result: ' + result);
  }
  $('#addButton').click(function(){ calculate('+'); });
  $('#subtractButton').click(function(){ calculate('-'); });
  $('#multiplyButton').click(function(){ calculate('*'); });
  $('#divideButton').click(function(){ calculate('/'); });
</script>
</body>
</html>
```



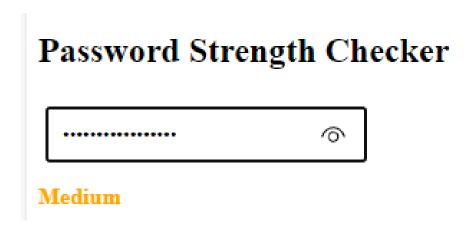
Problem stmt6:

Write a program to create and Build a Password Strength Check using ¡Query

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Password Strength Check</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
```

```
.weak {
  color: red;
 .medium {
  color: orange;
 }
 .strong {
  color: green;
 input {
  padding: 10px;
  margin: 5px;
  width: 200px;
 #strengthMessage {
  margin-top: 10px;
  font-weight: bold;
</style>
</head>
<body>
<h2>Password Strength Checker</h2>
<input type="password" id="password" placeholder="Enter your password">
<div id="strengthMessage"></div>
<script>
 $(document).ready(function(){
  $('#password').on('keyup', function(){
   var password = $(this).val();
   var strength = ";
   if(password.length < 6) {</pre>
    strength = 'Weak';
    $('#strengthMessage').removeClass().addClass('weak').text(strength);
   } else if(password.match(/[a-zA-Z]/) && password.match(/[0-9]/)) {
    strength = 'Medium';
    $('#strengthMessage').removeClass().addClass('medium').text(strength);
   } else if(password.match(/[a-zA-Z]/) && password.match(/[0-9]/) && password.match(/[@$!%*?&]/)) {
    strength = 'Strong';
    $('#strengthMessage').removeClass().addClass('strong').text(strength);
   } else {
    strength = 'Weak';
    $('#strengthMessage').removeClass().addClass('weak').text(strength);
```

```
});
</script>
</body>
</html>
```



Problem stmt7:

Create one textarea and one button. On click of the button the length of text entered inside the textarea will be displayed. Also Use one progress bar for showing the number of text entered.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Textarea Length with Progress Bar</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
 textarea {
  width: 300px;
  height: 100px;
  margin: 10px;
  padding: 10px;
 #progressBar {
  width: 300px;
  height: 20px;
  background-color: #ccc;
  margin: 10px 0;
```

```
#progress {
  height: 100%;
  width: 0;
  background-color: #007bff;
</style>
</head>
<body>
<h2>Textarea Length with Progress Bar</h2>
<textarea id="textArea" placeholder="Enter text..."></textarea><br>
<button id="checkLength">Check Length/button>
<div id="result"></div>
 <div id="progressBar">
 <div id="progress"></div>
</div>
<script>
 $(document).ready(function(){
  $('#checkLength').click(function(){
   var text = $('#textArea').val();
   var length = text.length;
   $('#result').text('Text Length: ' + length);
   var percentage = (length / 100) * 100;
   percentage = percentage > 100 ? 100 : percentage;
   $('#progress').css('width', percentage + '%');
</script>
</body>
</html>
Output:
```

Textarea Length with Progress Bar

Create one textarea and one button.

Check Length

Text Length: 35