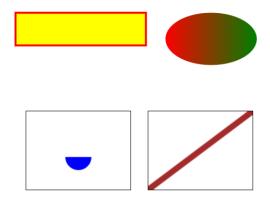
Name:Manoj R	SRN:PES2UG23CS328	Section:E
	Date:03/10/2024	Unit 2 Assignment
		Exercise

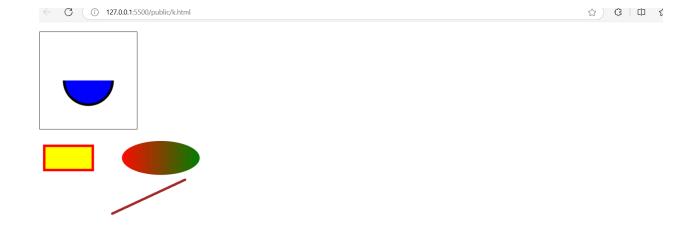
# **PROBLEM STATEMENT 1 (for even number SRNs):**

#### TASK 1

- Q1) Write a code to get the output shown below using SVG/Canvas which include:
  - 1. A rectangle with border and stroke
  - 2. An ellipse with linear gradient
  - 3. An arc using canvas
  - 4. A line



```
<script>
             const canvas = document.getElementById('myCanvas');
             const ctx = canvas.getContext('2d');
41
             ctx.beginPath();
42
             ctx.arc(100, 100, 50, 0, Math.PI, false);
             ctx.fillStyle = 'blue';
             ctx.fill();
45
             ctx.lineWidth = 5;
             ctx.strokeStyle = 'black';
             ctx.stroke();
         </script>
49
     </body>
     </html>
52
```



### Q2) Write jQuery code to accomplish the following:

1. Create a button that, when clicked, will cause the text in a specified paragraph to first fade out, slide up and then immediately slide down, demonstrating the use of jQuery method chaining to create a smooth animation effect.

Before:

Method chaining
Click

After:

Method Chaining
Click

Click

Method chaining
Click

```
2 v <html lang="en">
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>jQuery Animation</title>
           p {
               margin: 20px 0;
               padding: 10px;
               border: 1px solid ■#ccc;
        <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
        <h2>Method chaining</h2>
        Method Chaining
        <button id="animateBtn">Click</putton>
        <script>
           $(document).ready(function() {
               $("#animateBtn").click(function() {
                   $("#myParagraph").fadeOut(1000)
                                    .slideUp(1000)
                                    .slideDown(1000);
               });
            });
    </body>
```





C (i) 127.0.0.1:5500/j.html

#### Method chaining

Method Chaining

Click

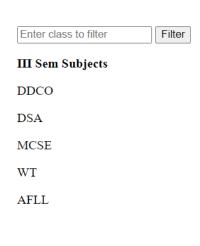
# **Method chaining**

Method Chaining



- 2. Create an input field to filter elements by class. When the user clicks the "Filter" button,
  - a)Hide all elements and
  - b)Display only those that match the entered class.

Before:



After:



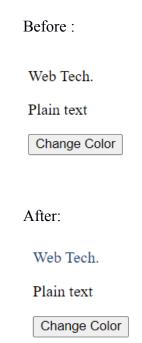
```
<!DOCTYPE html>
   <html lang="en">
       <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width, initial-scale=1.0">
       <title>Filter Subjects</title>
          .subject {
             margin: 10px 0;
             padding: 5px;
             border: 1px solid ■#ccc;
       <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
18
       <h3>III Sem Subjects</h3>
       <input type="text" id="classInput" placeholder="Enter class to filter">
       <button id="filterBtn">Filter
       DDCO
       DSA
       <div class="b">
56
       MCSE
       AFLL
```

```
</head>
       <h3>III Sem Subjects</h3>
       <input type="text" id="classInput" placeholder="Enter class to filter">
       <button id="filterBtn">Filter
       <div class="a">
       DDCO
       DSA
       </div>
       <div class="b">
56
       MCSE
       WT
       AFLL
       <script>
           $(document).ready(function() {
              $("#filterBtn").click(function() {
                 var inputVal = $("#classInput").val().toLowerCase();
                 $(".subject").hide(); // Hide all subjects
                 $(".subject").filter(function() {
                    return $(this).text().toLowerCase().indexOf(inputVal) > -1;
                 }).show(); // Show only the filtered subjects
              });
           });
    </body>
    </html>
```

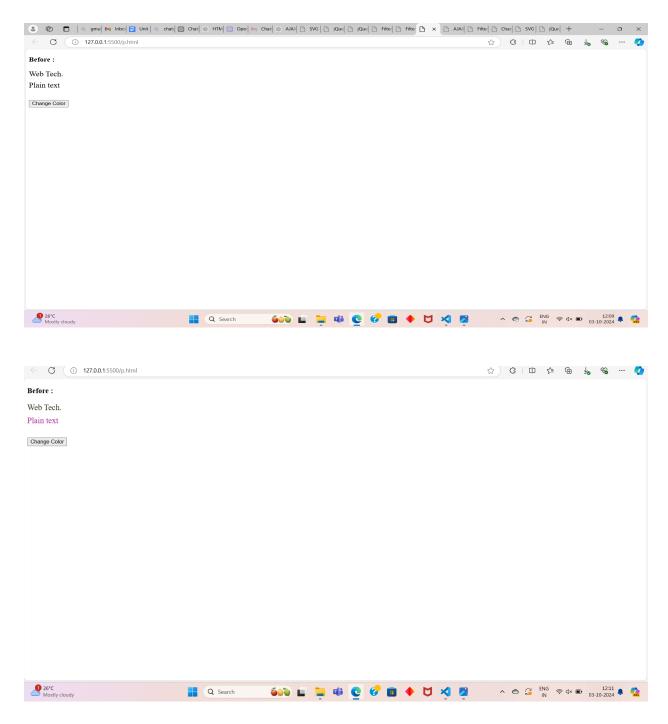




3. Add a button that, when clicked, changes the text color of a specified element to a random color, using a fade-out and fade-in animation.



```
<!DOCTYPE html>
      <html lang="en">
          <meta charset="UTF-8">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
          <title>Change Text Color with Animation</title>
              .text {
                  font-size: 20px;
                  margin: 10px 0;
             button {
                  margin-top: 20px;
          <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
          <h3>Before :</h3>
          <div class="text" id="webtech">Web Tech.</div>
          <div class="text" id="plaintext">Plain text</div>
          <button id="changeColorBtn">Change Color</button>
102
             $(document).ready(function() {
103
                 $("#changeColorBtn").click(function() {
                 $(document).ready(function() {
                     $("#changeColorBtn").click(function() {
                         function getRandomColor() {
                             var letters = '0123456789ABCDEF';
                             var color = '#';
                             for (var i = 0; i < 6; i++) {
                                 color += letters[Math.floor(Math.random() * 16)];
                             return color;
  114
                         $(".text").fadeOut(500, function() {
                             var newColor = getRandomColor();
                             $(this).css("color", newColor);
                             $(this).fadeIn(500);
                     });
```



Q3) Write a file using HTML, CSS, Javascript and AJAX file using XHR to read text file and displays the response on the page

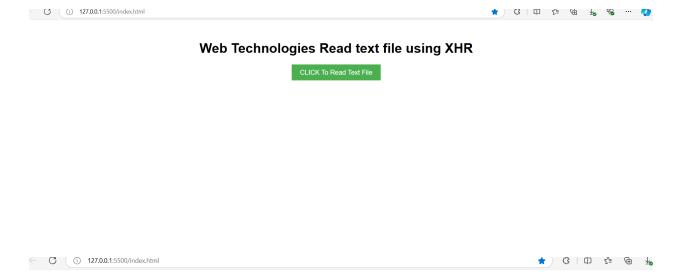
Before:



After:



```
# style.css > ...
      #readFileBtn {
          padding: 10px 20px;
          font-size: 16px;
          background-color: ■#4CAF50;
          color: □white;
11
          border: none;
12
13
          cursor: pointer;
15
      #readFileBtn:hover {
          background-color: ■#45a049;
      #fileContent {
          margin-top: 20px;
21
          font-size: 18px;
22
          color: □#333;
23
```



### Web Technologies Read text file using XHR

CLICK To Read Text File

Error: File not found