

Unit 2: HTML5, jQuery and Ajax

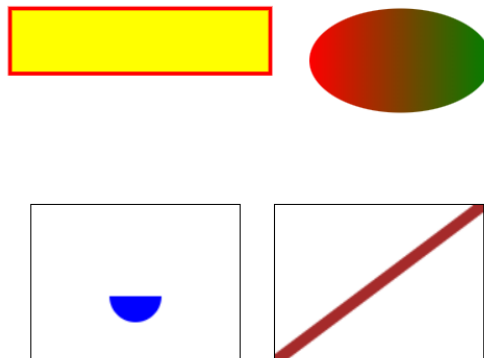
Name: ABHISHEK P	SRN: PES2UG23AM002	Section: A
	Date: 03-10-2024	Unit 2 Assignment Exercise

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



```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>SVG and Canvas Example</title>
<style>
body {display: flex; flex-direction: column; align-items: center; margin-top:
50px;}
```

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```
.row {display: flex; justify-content: center; margin-bottom: 20px;}
svg {margin-right: 20px;}
canvas {border: 2px solid navy; margin-right: 20px;}
</style>
</head>
<body>
<div class="row">
<svg width="300" height="150">
<rect x="50" y="30" width="200" height="70"
style="fill:yellow;stroke:hotpink;stroke-width:5"></rect>
</svg>
<svg width="300" height="150">
<defs>
<linearGradient id="grad1" x1="0%" y1="0%" x2="100%" y2="0%">
<stop offset="0%" style="stop-color:rgb(255,0,0);stop-opacity:1" />
<stop offset="100%" style="stop-color:rgb(0,128,0);stop-opacity:1" />
</linearGradient>
</defs>
<ellipse cx="150" cy="75" rx="100" ry="50" fill="url(#grad1)" />
</svg>
</div>
<div class="row">
```

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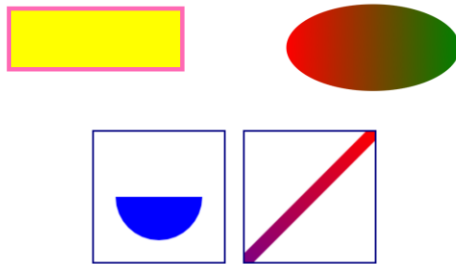
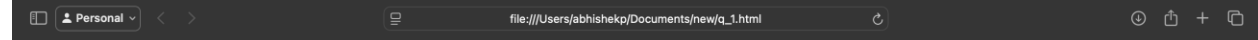
```
<canvas id="myCanvasArc" width="150" height="150"></canvas>
<canvas id="myCanvasLine" width="150" height="150"></canvas>
</div>
<script>
const canvasArc = document.getElementById('myCanvasArc');
const ctxArc = canvasArc.getContext('2d');
ctxArc.beginPath();
ctxArc.arc(75, 75, 50, 0, Math.PI, false);
ctxArc.fillStyle = "blue";
ctxArc.fill();

const canvasLine = document.getElementById('myCanvasLine');
const ctxLine = canvasLine.getContext('2d');
const gradient = ctxLine.createLinearGradient(150, 0, 0, 150);
gradient.addColorStop(0, "red");
gradient.addColorStop(1, "purple");
ctxLine.beginPath();
ctxLine.moveTo(150, 0);
ctxLine.lineTo(0, 150);
ctxLine.lineWidth = 15;
ctxLine.strokeStyle = gradient;
ctxLine.stroke();
</script>
```

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```
</body>
```

```
</html>
```



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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. 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.**

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Before:

III Sem Subjects

DDCO

DSA

MCSE

WT

AFLI

After:

DDCO

DSA

WT

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.

Before :

Unit 2: HTML5, jQuery and Ajax

Web Tech.

Plain text

Change Color

After:

Web Tech.

Plain text

Change Color

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>jQuery Example</title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></scrip
t>
</head>
<body>
<p id="myParagraph">Method chaining</p>
<button id="animateButton">Click</button>
<br><br>
```

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```
<input type="text" id="classFilter" placeholder="Enter class to filter">
<button id="filterButton">Filter</button>
<p id="subjectHeading">III Sem Subjects</p>
<div class="intro">DDCO</div>
<div class="intro">DSA</div>
<div class="classB">MSCE</div>
<div class="intro">WT</div>
<div class="classB">AFL</div>
<br><br>
<p id="randomText">Web Tech</p>
<p>Plain text</p>
<button id="colorButton">Change Color</button>
<script>
$('#animateButton').click(function() {
$('#myParagraph').fadeOut().slideUp().slideDown();
});
$('#filterButton').click(function() {
const filterClass = $('#classFilter').val();
$('div, p#subjectHeading').hide();
$('.' + filterClass).show();
});
$('#colorButton').click(function() {
```


Unit 2: HTML5, jQuery and Ajax

```
$('#randomText').fadeOut(500, function() {  
$(this).css('color', 'darkblue').fadeIn(500);  
});  
});  
</script>  
</body>  
</html>
```



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Personal

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file:///Users/abhishekp/Documents/new/q_2.html

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Method chaining

Click

Enter class to filter

III Sem Subjects

DDCO
DSA
MSCE
WT
AFLI

Web Tech

Plain text

Change Color

Personal

< >

file:///Users/abhishekp/Documents/new/q_2.html

🕒

📄

+

📄

Click

intro

DDCO
DSA
WT

Web Tech

Plain text

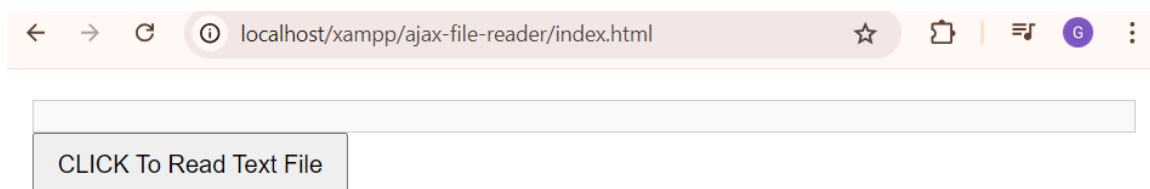
Change Color

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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:

Unit 2: HTML5, jQuery and Ajax

← → ↻ ⓘ localhost/xampp/ajax-file-reader/index.html ☆ 📁 🎵 G ⋮

Web Technologies Read text file using XHR

CLICK To Read Text File

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>AJAX File Reading Example</title>
<style>
body {
display: flex;
flex-direction: column;
align-items: center;
margin-top: 50px;
}
button {
padding: 10px 20px;
margin-top: 20px;
}
#fileContent {
margin-top: 20px;
```

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```
border: 1px solid #ccc;
padding: 10px;
width: 300px;
white-space: pre-wrap;
}
</style>
</head>
<body>
<div id="fileContent"></div>
<button id="loadFileButton">CLICK To Read Text File</button>
<script>
document.getElementById('loadFileButton').addEventListener('click', function()
{
const xhr = new XMLHttpRequest();
xhr.open('GET', 'example.txt', true);
xhr.onload = function() {
if (this.status === 200) {
document.getElementById('fileContent').innerText = this.responseText;
} else {
document.getElementById('fileContent').innerText = 'Error loading file.';
}
};
});
```

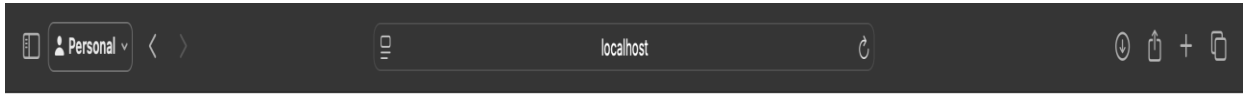
Unit 2: HTML5, jQuery and Ajax

```
xhr.onerror = function() {  
    document.getElementById('fileContent').innerText = 'Request error.';  
};  
xhr.send();  
});  
</script>  
</body>  
</html>
```



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CLICK To Read Text File



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Personal ▾



localhost



Web Technologies Read text file using XHR

CLICK To Read Text File
