

9) Develop jQuery script (with HTML/CSS) for:

- a. Appends the content at the end of the existing paragraph and list.
- b. Change the state of the element with CSS style using animate() method
- c. Change the color of any div that is animated.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>jQuery Append, Animate, and Color Change Demo</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
body {
font-family: Arial, sans-serif;
line-height: 1.6;
margin: 0;

padding: 20px;
background-color: #f4f4f4;
}
```

```
.container {  
  max-width: 800px;  
  margin: auto;  
  background: white;  
  padding: 20px;  
  border-radius: 5px;  
  box-shadow: 0 0 10px rgba(0,0,0,0.1);  
}  
  
h1, h2 {  
  color: #333;  
}  
  
.box {  
  width: 100px;  
  height: 100px;  
  background-color: #3498db;  
  margin: 20px 0;  
  
}  
  
button {  
  padding: 10px 15px;  
  background-color: #2ecc71;  
  color: white;  
  border: none;
```

```
border-radius: 5px;
cursor: pointer;
margin-right: 10px;
}

button:hover {
background-color: #27ae60;
}

</style>

</head>

<body>

<div class="container">

<h1>jQuery Demonstration</h1>
```

```
<h2>a. Append Content</h2>
```

```
<p id="existingParagraph">This is an existing paragraph. </p>
```

```
<ul id="existingList">
```

```
<li>Existing item 1</li>
```

```
<li>Existing item 2</li>
```

```
</ul>
```

```
<button id="appendButton">Append Content</button>
```

```
<h2>b. Animate Element</h2>
```

```
<div id="animateBox" class="box"></div>
```

```
<button id="animateButton">Animate Box</button>
```

<h2>c. Change Color of Animated Div</h2>

<div id="colorBox" class="box"></div>

<button id="colorAnimateButton">Animate and Change Color</button>

</div>

<script>

\$(document).ready(function() {

// a. Append content

\$("#appendButton").click(function() {

\$("#existingParagraph").append("This content is appended.");

\$("#existingList").append("Appended item");

});

// b. Animate element

\$("#animateButton").click(function() {

\$("#animateBox").animate({

width: "200px",

height: "200px",

opacity: 0.5

}, 1000);

});

// c. Animate and change color

\$("#colorAnimateButton").click(function() {

\$("#colorBox").animate({

```
width: "200px",  
height: "200px"  
}, {  
duration: 1000,  
step: function(now, fx) {  
if (fx.prop === "width") {  
$(this).css("background-color", `rgb(${Math.round(now)}, 52, 219)`);  
}  
}  
});  
});  
});  
</script>  
</body>  
</html>
```