

Name: ANKITH GOWDA B S	SRN: PES2UG22CS077	Section: B
	Date:19/10/2023	Unit 2 Assignment Exercise

PROBLEM STATEMENT2 (for odd number SRNs):

TASK 1

Q1) Write a code to get the output shown below using SVG

Example of SVG Circle with Text



NOTE: Replace ‘SRN’ with your srn.

```
1 <html>
2   <svg width="200" height="200" >
3     <ellipse cx="100" cy="100" rx="40" ry="60"
4       stroke="black" stroke-width="4" fill="dodgerblue"/>
5     <text x="50%" y="50%" text-anchor="middle"
6       alignment-baseline="middle" fill="black" font-size="10">PES2UG22CS077</text>
7   </svg>
8 </html>
```



Q2) Create a Div element which contains a header element for displaying “Halo 2 video game” and also a paragraph element for displaying “price \$50.00”. Both header and paragraph elements are registered for click event.

- When the paragraph element is clicked, change the font color to red and increase the fontsize
- When the header element is clicked pop up an alert message saying “the discount sale is going to end” using `addEventListener()` **Capturing phase**.

Before onclick

[click on header]Halo 2 video game

[click on paragraph] Price \$50.00

When the paragraph element is clicked

[click on header]Halo 2 video game

[click on paragraph] Price \$50.00

When the header element is clicked

This page says

The discount sale is going to end

OK

Unit 2: HTML5, jQuery and Ajax

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Halo 2 Video Game</title>
7   <style>
8     .game-info {
9       font-family: Arial, sans-serif;
10      margin: 50px;
11      padding: 20px;
12      border: 1px solid #ccc;
13      text-align: center;
14    }
15  </style>
16 </head>
17 <body>
18   <div class="game-info">
19     <h1 id="game-title">Halo 2 Video Game</h1>
20     <p id="price">Price $50.00</p>
21   </div>
22   <script>
23     const paragraph = document.getElementById('price');
24     const header = document.getElementById('game-title');
25     paragraph.addEventListener('click', function(){
26       paragraph.style.color = 'red';
27       paragraph.style.fontSize = '1.2em';
28     });
29     header.addEventListener('click', function(){
30       alert('The discount sale is going to end');
31     }, true);
32   </script>
33 </body>
34 </html>
35
```

Halo 2 Video Game

Price \$50.00

Halo 2 Video Game

Price \$50.00

This page says

The discount sale is going to end

OK

Price \$50.00

TASK 2 : Write jQuery code to accomplish the following:

- 1) Insert the html element `"I love jQuery!!!" ` at the beginning of a p element.

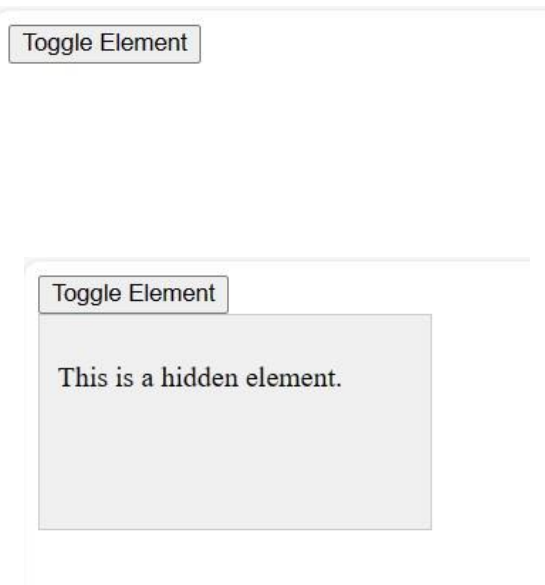
"I love jQuery!!!"This is a paragraph.

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
5 </head>
6 <body>
7   <p id="target-paragraph">This is a paragraph.</p>
8
9   <script>
10    $(document).ready(function(){
11      var newElement = '<b>"I love jQuery!!!"</b>';
12      $('#target-paragraph').prepend(newElement);
13    });
14  </script>
15 </body>
16 </html>
17
```

"I love jQuery!!!"This is a paragraph.

- 2) Create an HTML button with the text "Toggle Element." Include a hidden `<div>` element on the page. Initially, this `<div>` should be hidden using CSS (`display: none;`). Write jQuery code that, when the button is clicked, toggles the visibility of the hidden `<div>` element. Clicking the button should show the hidden `<div>` if it's hidden and hide it if it's visible.

Use fade-in and fade-out animations to make the toggling smooth and visually appealing.



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>jQuery Example</title>
7   <style>
8     .hidden-div {
9       display: none;
10    }
11  </style>
12 </head>
13 <body>
14   <p></p>
15   <button id="toggleButton">Toggle Element</button>
16   <div class="hidden-div">
17     This is a hidden Element.
18   </div>
19   <script>
20     $('#toggleButton').click(function (){
21       $('.hidden-div').fadeToggle('slow');
22     });
23   </script>
24 </body>
25 </html>
```



Unit 2: HTML5, jQuery and Ajax

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Toggle Element

Toggle Element

This is a hidden Element.