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Assignment 10

Title: Write a JQuery code to give animation to div on click of button.

Theory:

To implement an animation in jQuery when a button is clicked, you'll need to understand some basic jQuery concepts. Here's a theoretical overview of what you'll need to know:

1. Including jQuery: First, make sure you include the jQuery library in your HTML file. You can do this by adding a `

6. Callback Functions: You can also use callback functions to execute code after the animation is complete. For example, you might want to reset the properties of the animated div to their original values or perform other actions.

7. Document Ready: It's a good practice to enclose your jQuery code inside a `$(document).ready()` function to ensure that the DOM is fully loaded before your code runs.

8. Optional: CSS Styles: You can use CSS styles to define initial properties of the div, which will be modified during the animation.

Remember that this is just a theoretical overview of what you'll need to understand. When implementing the code, you'll need to combine these concepts and write the actual jQuery code to achieve the desired animation effect. If you need help with a specific aspect or have any questions, feel free to ask for further guidance.

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Enhanced jQuery Animation</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    .animatedDiv {
      width: 100px;
      height: 100px;
      border-radius: 50%; /* Rounded corners for a circle */
      margin: 20px;
      transition: all 0.3s ease-in-out; /* Smooth transition for changes */
    }

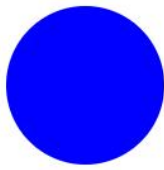
    .blue {
      background-color: blue;
    }
    .green {
      background-color: green;
    }
    .red {
      background-color: red;
    }
    .buttonContainer {
      text-align: center;
    }
    .animationButton {
      background-color: #4CAF50;
      color: white;
      border: none;
      padding: 10px 20px;
    }
  </style>
</head>
<body>
  <div class="animatedDiv">
    <div class="blue">
      <div class="green">
        <div class="red">
          <div class="buttonContainer">
            <button class="animationButton">Click Me</button>
          </div>
        </div>
      </div>
    </div>
  </div>
</body>
</html>
```

```

    cursor: pointer;
    font-size: 16px;
  }
  .animationButton:hover {
    background-color: #45a049; /* Darker green on hover */
  }
</style>
</head>
<body>
  <table>
    <tr>
      <td>
        <div class="animatedDiv blue"></div>
        <div class="buttonContainer">
          <button class="animationButton" id="animateBlue">Animate Blue</button>
        </div>
      </td>
      <td>
        <div class="animatedDiv green"></div>
        <div class="buttonContainer">
          <button class="animationButton" id="animateGreen">Animate Green</button>
        </div>
      </td>
      <td>
        <div class="animatedDiv red"></div>
        <div class="buttonContainer">
          <button class="animationButton" id="animateRed">Animate Red</button>
        </div>
      </td>
    </tr>
  </table>
  <script>
    $(document).ready(function() {
      $(".animationButton").click(function() {
        const $div = $(this).closest("td").find(".animatedDiv");
        if ($div.hasClass("expanded")) {
          $div.animate({
            width: '100px',
            height: '100px',
            opacity: 1
          }, 1000).removeClass("expanded");
        } else {
          $div.animate({
            width: '200px',
            height: '200px',
            opacity: 0.5
          }, 1000).addClass("expanded");
        }
      });
    });
  </script>
</body>
</html>

```

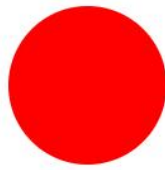
Output:



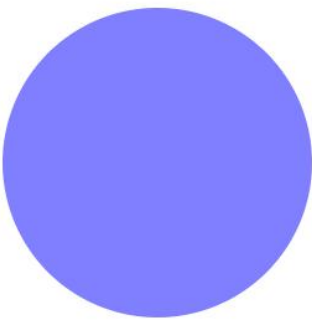
Animate Blue



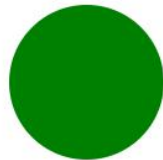
Animate Green



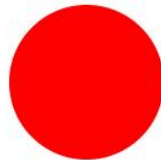
Animate Red



Animate Blue



Animate Green



Animate Red

Conclusion: Conclusively, by applying the principles of jQuery, we can create interactive and engaging web experiences. In this experiment, we have leveraged jQuery's event handling and animation capabilities to trigger dynamic effects when a button is clicked. Understanding how to select elements, bind events, and implement animations is fundamental to enhancing user interactivity and visual appeal in web development. This experiment demonstrates the potential of jQuery for creating compelling user interfaces through efficient and concise JavaScript code.