1) **Change Text on Button Click**
   Suppose you have a webpage with a button and a paragraph. When the user clicks the button, the text inside the paragraph should change to a new message (like "Hello, World!").

   Source Code:

```html
<html>
<head>
  <title>question 1</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
  <p id="myPara">Hi my name is Rishvan.</p>
  <button id="myBtn">Click Me</button>
  <script>
    $(document).ready(function(){
      $("#myBtn").click(function(){
        $("#myPara").text("Hello, World!");
      });
    });
  </script>
</body>
</html>
```

2) **Hide and Show Paragraph**
   Imagine a webpage with some description text. Add two buttons labelled "Hide" and "Show". When "Hide" is clicked, the paragraph should disappear, and when "Show" is clicked, it should reappear.

   Source code:

```html
<html>
<head>
  <title>question 2</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
  <p id="myPara">My name is Rishvan Kumar. In my 3rd yr of college </p>
  <button id="hideBtn">Hide</button>
```

```html
    <button id="showBtn">Show</button>
    <script>
      $(document).ready(function(){
        $("#hideBtn").click(function(){
          $("#myPara").hide();
        });
        $("#showBtn").click(function(){
          $("#myPara").show();
        });
      });
    </script>
 </body>
</html>
```

3) Toggle an Image
   Create a webpage with an image and a button. Each time the user clicks the button, the image should toggle between being visible and hidden. This is useful in real apps like showing/hiding ads or banners.
Source Code:
```html
<html>
<head>
  <title>question 3</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
  <button id="toggleBtn">Toggle Image</button>
  <br><br>
  <img id="myImg" src="https://gratisography.com/wp-content/uploads/2024/11/gratisography-augmented-reality-800x525.jpg"
  alt="Sample Image" height="200" width="300">
  <script>
    $(document).ready(function(){
      $("#toggleBtn").click(function(){
        $("#myImg").toggle();
      });
    });
  </script>
</body>
</html>
```

4) Change Background Color
   Design a div (box) on the page. When a button is clicked, the background color of the box should change to another color, like blue or red. This simulates color themes or highlight effects.

Source Code:

```html
<html>
<head>
  <title>question 4</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    #myBox {
      width: 200px;
      height: 200px;
      background-color: rgb(107, 131, 204);
      border: 2px solid black;
      margin: 20px;
    }
  </style>
</head>
<body>

  <div id="myBox"></div>
  <button id="colorBtn">Change Color</button>

  <script>
    $(document).ready(function(){
      $("#colorBtn").click(function(){
        $("#myBox").css("background-color", "purple");
      });
    });
  </script>

</body>
</html>
```

5) Add New List Item
Start with an unordered list (<ul>) that has a few items. Add a button called "Add Item". When clicked, it should insert a new item at the bottom of the list.

Source Code:

```html
<html>
<head>
  <title>question 5</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

  <h3>My List</h3>
  <ul id="myList">
    <li>Milk</li>
    <li>Eggs</li>
  </ul>

  <button id="addBtn">Add Item</button>

  <script>
    $(document).ready(function(){
      $("#addBtn").click(function(){
        let newItem = prompt("Enter a new list item:");
        if(newItem && newItem.trim() !== "") {
          $("#myList").append("<li>" + newItem + "</li>");
        }
      });
    });
  </script>

</body>
</html>
```

6) Fade In and Fade Out
   Create an image on the page with two buttons: "Fade In" and "Fade Out". Clicking each button should smoothly show or hide the image with fading animation.

Source Code:

```html
<html>
<head>
  <title>question 6</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

  <button id="fadeInBtn">Fade In</button>
  <button id="fadeOutBtn">Fade Out</button>
  <br><br>
  <img id="myImg" src="https://gratisography.com/wp-content/uploads/2024/11/gratisography-augmented-reality-800x525.jpg" alt="Sample Image" style="display:none;">

  <script>
    $(document).ready(function(){
      $("#fadeInBtn").click(function(){
        $("#myImg").fadeIn(1000);
      });

      $("#fadeOutBtn").click(function(){
        $("#myImg").fadeOut(1000);
      });
    });
  </script>
</body>
</html>
```

7) Simple Form Alert
   Add a form with a text input and a submit button. When the form is
   submitted, show the entered text in an alert popup without actually
   submitting the form to the server.

Source Code:

```html
<html>
<head>
  <title>question 7</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

  <h3>Enter Your Name</h3>
  <form id="myForm">
    <input type="text" id="myInput" placeholder="Type something...">
    <button type="submit">Submit</button>
  </form>

  <script>
    $(document).ready(function(){
      $("#myForm").submit(function(event){
        event.preventDefault();
        let inputValue = $("#myInput").val();
        alert("You entered: " + inputValue);
      });
    });
  </script>

</body>
</html>
```

8) Change Image Source
   Build a small gallery with one large image and a few small thumbnails.
   When a thumbnail is clicked, the large image should change to match
   the thumbnail.

Source Code:

```html
<html>
<head>
  <title>question 8</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    #mainImg {
      width: 300px;
      height: 200px;
      border: 2px solid #333;
      margin-bottom: 15px;
      display: block;
    }
    .thumb {
      width: 80px;
      height: 60px;
      margin: 5px;
      cursor: pointer;
      border: 2px solid transparent;
    }
    .thumb:hover {
      border: 2px solid rgb(241, 22, 22);
    }
  </style>
</head>
<body>

  <h3>Simple Image Gallery</h3>
  <img id="mainImg" src="" Main Image">

  <div>
    <5 images>
  </div>
```

```
    <script>
      $(document).ready(function(){
        $(".thumb").click(function(){
          let newSrc = $(this).attr("src");
          $("#mainImg").attr("src", newSrc);
        });
      });
    </script>

</body>
</html>
```

9) Hover Effect
Write a paragraph of text on your page. When the user hovers the Mouse over it, the color should change (say from black to red). When the mouse moves away, it should return to normal.

Source Code:

```
<html>
<head>
  <title>question 9</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    p {
      font-size: 18px;
      color: black;
    }
  </style>
</head>
<body>
  <h2>Hover Effect Over Text</h2>
  <p id="myPara">Hello Everyone!!! My name is Rishvan</p>

  <script>
    $(document).ready(function(){
      $("#myPara").hover(
        function(){
          $(this).css("color", "red");
        },
```

```
            function(){
                $(this).css("color", "black");
            }
        );
    });
</script>

</body>
</html>
```

10) Slide Up and Slide Down Create a simple menu (like a drop-down). When clicked, it should expand downwards showing the hidden items. When clicked again, it should slide back up.

Source Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>question 10</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
  <button id="menuBtn">Menu</button>
  <ul id="submenu" style="display:none;">
    <li>Home</li>
    <li>About</li>
    <li>Services</li>
    <li>Contact</li>
  </ul>
  <script>
    $(document).ready(function(){
      $("#menuBtn").click(function(){
        $("#submenu").slideToggle();
      });
    });
  </script>

</body>
</html>
```