1) Form Validation (Required Fields) Build a signup form with fields like Name and Email. Before submission, check that none of the fields are empty and that the email is in the correct format. Show a warning message if validation fails.

```
<html>
<head>
 <title>question 1</title>
 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
 <h3>Signup Form</h3>
 <form id="signupForm">
   <label>Name:</label><br>
   <input type="text" id="name" placeholder="Enter your name"><br><br>
   <label>Email:</label><br>
   <input type="text" id="email" placeholder="Enter your email"><br><br>
   <button type="submit">Submit</button>
 </form>
 <script>
   $(document).ready(function(){
     $("#signupForm").submit(function(event){
       event.preventDefault();
       let isValid = true;
       let message = "";
       $("#signupForm input").each(function(){
         if($(this).val().trim() === ""){
          isValid = false;
          message = "All fields are required.";
          return false; // exit loop early
        }
       });
       if(isValid){
         let email = $("#email").val().trim();
```

```
let emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
         if(!emailPattern.test(email)){
           isValid = false;
           message = "Please enter a valid email address.";
         }
       }
       if(isValid){
         $("#msg").css("color", "green").text("Form submitted
successfully!");
       }else{
         $("#msg").css("color", "red").text(message);
       }
     });
   });
 </script>
</body>
</html>
```

2) Accordion for FAQ Section

Create a list of frequently asked questions. When a user clicks on a question, the answer should slide down. If another question is clicked, the previous answer should close.

```
<html>
<head>
    <title>question 2</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<head>
<body>

<h2>FAQ Section</h2>
    <div class="faq">

</div>

<div class="faq">

          <div class="faq">

          <div class="faq">
```

```
</div>
 <div class="faq">
  </div>
 <script>
  $(document).ready(function(){
    $(".question").click(function(){
     let answer = $(this).next(".answer");
     $(".answer").not(answer).slideUp();
     answer.slideToggle();
    });
  });
 </script>
</body>
</html>
```

3) Character Counter in Textarea

Add a textarea for typing (like posting a tweet). Below it, display how many characters are remaining out of 100. Update the counter as the user types.

```
<html>
<head>
    <title>question 3</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

<h3>Post Something</h3>
    <textarea id="myText" rows="4" cols="40" maxlength="100"
placeholder="Type here..."></textarea>
    100 characters remaining
<script>
    $(document).ready(function(){
```

```
$("#myText").keyup(function(){
    let max = 100;
    let currentLength = $(this).val().length;
    let remaining = max - currentLength;

    $("#counter").text(remaining + " characters remaining");
    });
    });
    </script>
</body>
</html>
```

4) Scroll-to-Top Button

On long pages, add a "Scroll to Top" button that only appears after the user scrolls down a few hundred pixels. When clicked, it smoothly scrolls the page back to the top.

```
<html>
<head>
  <title>question 4</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
   body {
     height: 2500px;
   }
   #topBtn {
     display: none;
     position: fixed;
     bottom: 30px;
     right: 30px;
     padding: 10px 15px;
     font-size: 16px;
     cursor: pointer;
  </style>
</head>
<body>
```

```
<button id="topBtn">Top</button>
  <script>
    $(document).ready(function(){
      $(window).scroll(function(){
        if (\$(this).scrollTop() > 300) {
          $("#topBtn").fadeIn();
       } else {
          $("#topBtn").fadeOut();
       }
     });
      $("#topBtn").click(function(){
        $("html, body").animate({scrollTop: 0}, 800);
     });
   });
 </script>
</body>
</html>
```

5) Tab Navigation

Build a tab system with multiple tabs like "Home", "About", "Contact". Clicking each tab should display its related content while hiding the others.

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

<h3>Tabs Switch</h3>
    <button class="tabBtn" data-tab="home">Home</button>
    <button class="tabBtn" data-tab="about">About</button>
    <button class="tabBtn" data-tab="contact">Contact</button>
    <button class="tabBtn" data-tab="contact">Contact</button>
<div id="home" class="tabContent">Welcome to the Home page!</div>
```

6) Disable Submit Until Terms Checked
On a signup form, add a "Terms and Conditions" checkbox. The
"Submit" button should stay disabled until the checkbox is selected.

<input type="checkbox" id="terms"> I agree to the Terms and Conditions


```
<button type="submit" id="submitBtn" disabled>Submit</button>
</form>

<script>
    $(document).ready(function(){
        $("#terms").change(function(){
             $("#submitBtn").prop("disabled", !this.checked);
        });
    });
    </script>
</body>
</html>
```

7) Dynamic Table Filter

Create an employee table with columns like Name, Department, and Email. Above the table, add a search box. As the user types in the box, show only the rows that match the text.

```
<html>
<head>
 <title>question 7</title>
 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
 <h3>Employee Table</h3>
 <input type="text" id="search" placeholder="Search
employees..."><br><br>
 <thead>
   Name
     Department
     Email
```

```
</thead>
   Rish
      Sales
      rish@example.com
    <script>
   $(document).ready(function(){
    $("#search").keyup(function(){
      let value = $(this).val().toLowerCase();
      $("#empTable tbody tr").filter(function(){
        $(this).toggle($(this).text().toLowerCase().indexOf(value) > -1)
      });
    });
   });
 </script>
</body>
</html>
```

8) Shopping Cart Calculation Design a shopping cart table with product names, prices, and quantity input boxes. When the quantity changes, automatically recalculate and update the total cost.

```
<html>
<head>
    <title>question 8</title>
    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>

<h3>Shopping Cart</h3>

         5 cellspacing = 0>
         6 cellspacing =
```

```
Product
   Price ($)
   Quantity
   Subtotal ($)
  </thead>
 Apple
   2
   <input type="number" class="qty" value="1" min="0">
   2
  Banana
   1
   <input type="number" class="qty" value="2" min="0">
   2
  Orange
   3
   <input type="number" class="qty" value="1" min="0">
   3
  <tfoot>
  <strong>Total
($):</strong>
   7
  </tfoot>
<script>
 $(document).ready(function(){
  function calculateTotal(){
   let total = 0;
```

```
$("#cartTable tbody tr").each(function(){
    let price = parseFloat($(this).find(".price").text());
    let qty = parseInt($(this).find(".qty").val());
    let subtotal = price * qty;
    $(this).find(".subtotal").text(subtotal);
    total += subtotal;
    });
    $("#total").text(total);
}
$(".qty").change(calculateTotal);
    calculateTotal();
});
</script>
</body>
</html>
```

9) Simple AJAX Call Add a button "Load Users". When clicked, fetch a JSON list of users (like name and email) from a file or API and display them in a list on the page.

```
<html>
<head>
 <title>question 9</title>
 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
 <h3>User List</h3>
 <button id="loadBtn">Load Users/button>
 ul id="userList">
 <script>
   $(document).ready(function(){
     $("#loadBtn").click(function(){
       $.getJSON("https://jsonplaceholder.typicode.com/users",
function(data){
         $("#userList").empty();
         $.each(data, function(index, user){
```

10) Dark Mode Toggle Add a switch button that lets the user switch between light and dark themes for the page. Change background and text colors accordingly.

```
<html>
<head>
 <title>question 10</title>
 <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
 <style>
   body {
     background-color: white;
     color: black;
     transition: background 0.3s, color 0.3s;
   }
   .dark-mode {
     background-color: #121212;
     color: #f0f0f0;
   }
   #toggleBtn {
     margin: 20px 0;
     padding: 10px 15px;
     cursor: pointer;
   }
 </style>
```

```
</head>
<body>

<h2>Toggle Dark Mode</h2>
<button id="toggleBtn">Dark Mode</button>

My name is Rishvan.
<script>
$(document).ready(function(){
$("#toggleBtn").click(function(){
$("body").toggleClass("dark-mode");
});
});
</script>
</body>
</html>
```