1. Write a code to find out whether the year is leap year or not in javascript

```
<!DOCTYPE html>
<head>
 <script>
   function checkLeapYear() {
     var userInput = parseInt(document.getElementById("yearInput").value);
     function isLeapYear(year) {
       return (year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0);
     if (isLeapYear(userInput)) {
       alert(userInput + " is a leap year.");
     } else {
       alert(userInput+ " is not a leap year.");
 </script>
<body>
 <h1>Leap Year Checker</h1>
 <input type="text" id="yearInput" placeholder="Enter year">
 <button onclick="checkLeapYear()">Check Leap Year</button>
</body>
</html>
```

2. Fibonacci Series:

```
var fibonacciSeries = [];
  for (var i = 0; i < userInput; i++) {
     fibonacciSeries.push(fibonacci(i));
  }
    alert("Fibonacci Series for " + userInput + " numbers: " +
fibonacciSeries.join(", "));
  }
  </script>
  <body>
    <h1>Fibonacci Series Generator</h1>
    <input type="text" id="numberInput" placeholder="Enter a number">
     <button onclick="generateFibonacci()">Generate</button>
  </body>
  </html>
```

3. Changing attributes dynamically

4. Slide show:

```
<html>
<title>slideshow</title>
<body>
<h2 class="w3-center">Manual Slideshow</h2>
```

```
<div class="w3">
    <img class="mySlides" src="y.jpg" style="width:50%">
   <img class="mySlides" src="yy.jpg" style="width:50%">
   <img class="mySlides" src="yyy.jpg" style="width:50%">
   <img class="mySlides" src="yyyy.jpg" style="width:50%">
   <button class="aa" onclick="plusDivs(-1)">&#10094;Back/button>
   <button class="bb" onclick="plusDivs(1)">&#10095;Forward</button>
  </div>
  <script>
  var slideIndex = 1;
  showDivs(slideIndex);
  function plusDivs(n)
   showDivs(slideIndex += n);
  function showDivs(n)
   var i;
   var x = document.getElementsByClassName("mySlides");
   if (n > x.length)
  slideIndex = 1
   if (n < 1)
  slideIndex = x.length
   for (i = 0; i < x.length; i++)
   x[i].style.display = "none";
   x[slideIndex-1].style.display = "block";
</script>
</body>
</html>
```

5. Onchange:

```
{
alert("The input value has changed. The new value is: " + val);
}
</script>
</body>
</html>
```

6. Resizeto and resizeby:

```
<!DOCTYPE html>
 <title>Window Resize Demo</title>
 <style>
   body {
     font-family: Arial, sans-serif;
   button {
     margin: 10px;
     padding: 5px 10px;
     font-size: 14px;
 </style>
</head>
<body>
 <h2>Window Resize Demo</h2>
 Click the buttons to resize the window:
 <button onclick="resizeByExample()">Resize by 100 pixels/button>
 <button onclick="resizeToExample()">Resize to 400x300 pixels
 <script>
   function resizeByExample() {
     // Resize the window by 100 pixels in both width and height
     window.resizeBy(100, 100);
   function resizeToExample() {
     // Resize the window to 400x300 pixels
     window.resizeTo(400, 300);
 </script>
</body>
</html>
```

7. Scrollto and scrollBy:

8. Checkbox:

```
<!DOCTYPE html>
<html>
    <title>Checkbox Selection</title>
    <script>
        function checkCheckboxes() {
            var checkboxes = document.getElementsByName('checkbox');
            var checkboxChecked = false;
            for (var i = 0; i < checkboxes.length; i++) {</pre>
                if (checkboxes[i].checked) {
                    checkboxChecked = true;
                    break;
            if (checkboxChecked) {
                alert('At least one checkbox is selected.');
            } else {
                alert('No checkbox is selected.');
    </script>
```