

```
1 <!-- Interval Demo -->
2 <!-- Go to the last script tag -->
3
4 <!DOCTYPE html>
5
6 <html lang="en-us">
7
8   <head>
9
10    <meta charset="UTF-8">
11    <title>Document</title>
12
13  </head>
14
15  <body>
16
17    <div id="show-number"></div>
18
19    <br>
20
21    <button id="stop">Stop</button>
22    <button id="resume">Resume</button>
23
24    <!-- jQuery -->
25    <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
26
27    <!-- Script -->
28    <script type="text/javascript">
29
30      // Interval Demonstration
31      // Set our number counter to 100.
32      var number = 100;
33
34      // Variable that will hold our interval ID when we execute
35      // the "run" function
36      var intervalId;
37
38      // When the stop button gets clicked, run the stop function.
39      $("#stop").on("click", stop);
40
41      // When the resume button gets clicked, execute the run function.
42      $("#resume").on("click", run);
43
44      // The run function sets an interval
45      // that runs the decrement function once a second.
46      // *****BUG FIX*****
47      // Clearing the intervalId prior to setting our new intervalId will not allow
multiple instances.
48      function run() {
49        clearInterval(intervalId);
50        intervalId = setInterval(decrement, 1000);
51      }
52
53      // The decrement function.
54      function decrement() {
55
56        // Decrease number by one.
57        number--;
58
```

```
59 // Show the number in the #show-number tag.
60 $("#show-number").html("<h2>" + number + "</h2>");
61
62
63 // Once number hits zero...
64 if (number === 0) {
65
66     // ...run the stop function.
67     stop();
68
69     // Alert the user that time is up.
70     alert("Time Up!");
71 }
72 }
73
74 // The stop function
75 function stop() {
76
77     // Clears our intervalId
78     // We just pass the name of the interval
79     // to the clearInterval function.
80     clearInterval(intervalId);
81 }
82
83 // Execute the run function.
84 run();
85
86 </script>
87
88 </body>
89
90 </html>
91
```