

```
1  `timescale 1ns / 1ps
2  //*****//
3  // Class: CECS 360 //
4  // Project name: Project1_CECS360 //
5  // File name: Debounce.v //
6  // //
7  // Created by Umar Khan on 09/16/2017 //
8  // //
9  // //
10 // Abstract: Generates a tick every 10ms. //
11 // //
12 //*****//
13
14 module pulse_maker(clk, reset, pulse);
15
16     input clk, reset;
17     output pulse;
18     reg [19:0] count;
19
20     assign pulse = (count == 999999);
21
22     always @ (posedge clk, posedge reset)
23
24         if(reset)    count <= 20'b0;
25     else
26         if(pulse) count <= 20'b0;
27     else
28         count<= count + 20'b1;
29
30 endmodule
31
```