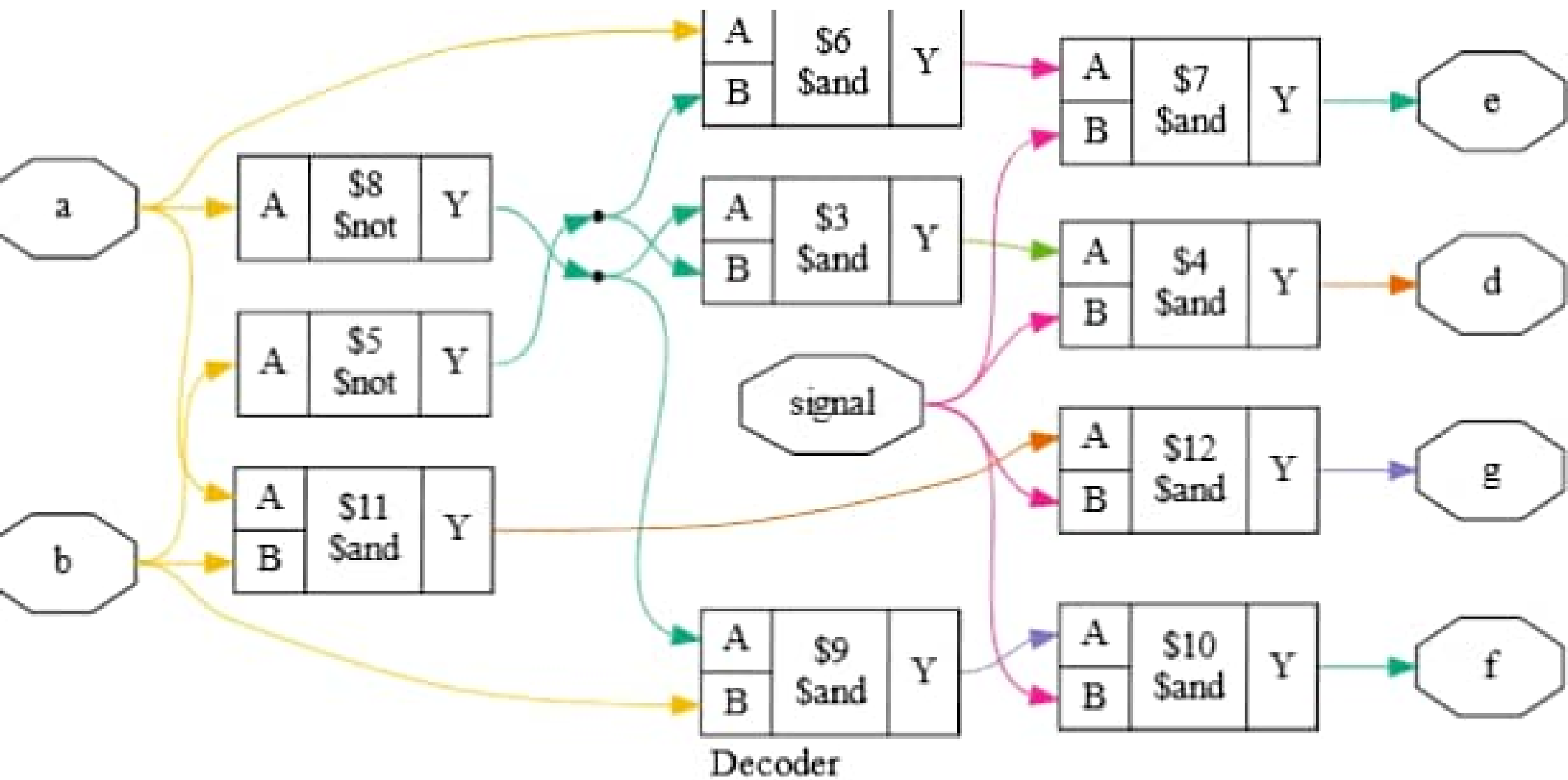


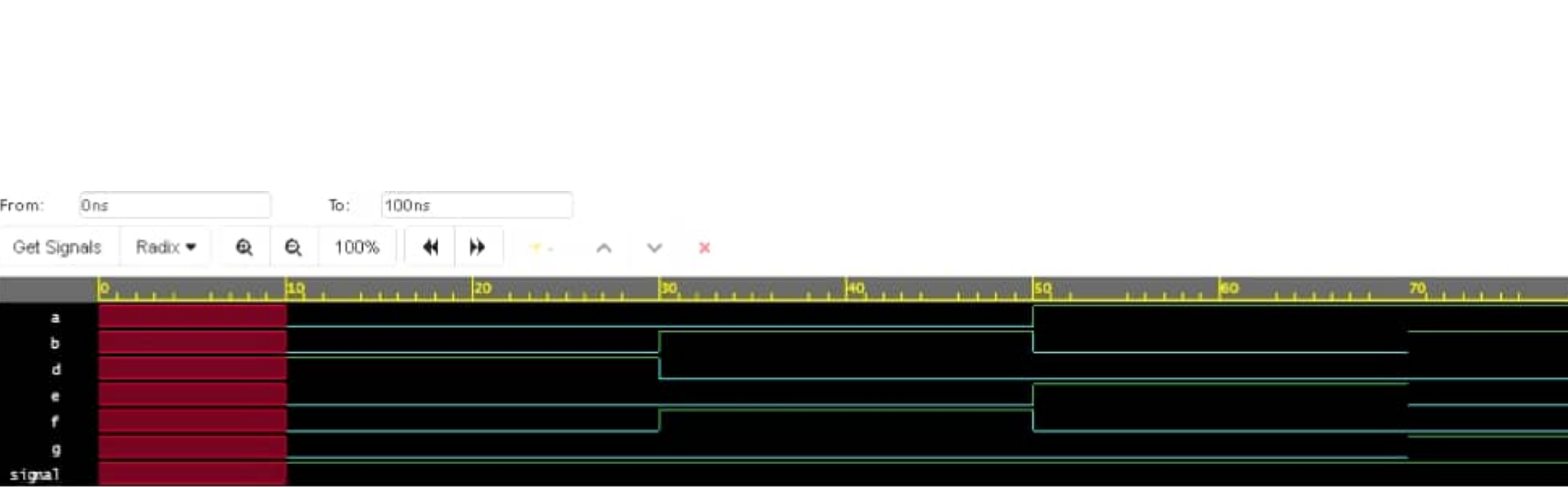
```
1 // Code your design here
2 //Design module
3 module Decoder(input wire a,
4                 input wire b,
5                 input wire signal,
6                 output wire d,
7                 output wire e,
8                 output wire f,
9                 output wire g);
10
11
12     assign d = (~a) & (~b) & signal;
13     assign e = (a) & (~b) & signal;
14     assign f = (~a) & (b) & signal;
15     assign g = (a) & (b) & signal;
16
17
18 endmodule
```

```

1 // Code your testbench here
2 // or browse Examples
3 //test bench
4
5 module dec_tb();
6     reg a,b,sigal;
7     wire d,e,f,g;
8
9     Decoder dec(.a(a),
10                .b(b),
11                .sigal(sigal),
12                .d(d),
13                .e(e),
14                .f(f),
15                .g(g)
16                );
17
18     initial
19         begin
20
21             #10
22             a=1'b0; b=1'b0; sigal= 1'b1;
23             #20
24             a=1'b0; b=1'b1; sigal= 1'b1;
25             #20
26             a=1'b1; b=1'b0; sigal= 1'b1;
27             #20
28             a=1'b1; b=1'b1; sigal= 1'b1;
29         //             #10
30         end
31
32     initial
33         begin
34             $dumpfile("dump.vcd");
35             $dumpvars();
36             #100
37             $finish;
38         end
39     endmodule
40

```





Note: To revert to EPWaves opening in a new browser window set that option on your user page