



```
Grey to Bin.v x Untitled 2 x to Grey to Bin.v x
/home/itzzinfinity/Cozy Drive/100daysofRTL/day 043/project 1/project 1.srcs/sources 1/new/Grey to Bin.v
   timescale 1ns / 1ps
       '// Engineer: Anjan Prasad
       // Create Date: 11/03/2024 04:44:46 AM
       // Module Name: Grey to Bin
       $}}}|}||
8
       /* grey to binary converters */
       module Grey to Bin(
       output [3:0] b,
10
11
       input[3:0]g);
12
    \bigcirc assign b[0] = g[0] ^ b[1];
       assign b[1] = g[1] ^ b[2];
13 :
14
       assign b[2] = g[2] ^ b[3];
15
       assign b[3] = g[3];
16 白
       endmodule
```

```
Grey to Bin.v
             x Untitled 2
                         x tb Grey to Bin.v
/home/itzzinfinity/Cozy Drive/100daysofRTL/day 043/project 1/project 1.srcs/sim 1/new/tb Grey to Bin.v
                   1
        timescale 1ns / 1ps
 2 🖨
        3 ¦
        '// Engineer: Anjan Prasad
 4
        // Create Date: 11/03/2024 04:47:48 AM
 5
        '// Module Name: tb Grey to Bin
 6 🖒
        7
 8 ¦
 9 🖨
        module tb Grey to Bin;
            req [3:0] grey;
10
            wire [3:0] bin;
11
12
            Grey to Bin uut (.g(grey),.b(bin));
13 🖨
            initial begin
14
               $monitor("grey = %b, bin = %b", grey, bin);
15
     0
               grey = 4'b0000; #10;
16
     0
               arev = 4'b0001: #10:
17
     0
               grey = 4'b0010; #10;
     0
               grey = 4'b0011; #10;
18
19
     0
               grey = 4'b0100; #10;
20
     0
               grey = 4'b0101; #10;
     0
21
               grey = 4'b0110; #10;
22
     0
               grey = 4'b0111; #10;
23
     0
               grey = 4'b1000; #10;
     0
24
               grey = 4'b1001; #10;
25
     0
               grey = 4'b1010; #10;
     0
26
               grey = 4'b1011; #10;
27
     0
               grey = 4'b1100; #10;
28
     0
               grey = 4'b1101; #10;
29
     0
               grey = 4'b1110; #10;
30
               grey = 4'b1111; #10;
31
32
     \bigcirc
               $finish;
33 🖒
            end
34 🛆
        endmodule
35
36
Tol Console Messages Log
```