





																		160.000 ns			
Name	Value	0.000 ns		20.000 ns		40.000 ns		60.000 ns		80.000 ns		100.000 ns		120.000 ns		140.000 ns		160.000 ns		180.000 ns	
>  bin[3:0]	f	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f				
>  grey[3:0]	8	0	1	3	2	6	7	5	4	c	d	f	e	a	b	9	8				
		<div>< > <</div>																			



```
# run 1000ns
Binary = 0000, Grey = 0000
Binary = 0001, Grey = 0001
Binary = 0010, Grey = 0011
Binary = 0011, Grey = 0010
Binary = 0100, Grey = 0110
Binary = 0101, Grey = 0111
Binary = 0110, Grey = 0101
Binary = 0111, Grey = 0100
Binary = 1000, Grey = 1100
Binary = 1001, Grey = 1101
Binary = 1010, Grey = 1111
Binary = 1011, Grey = 1110
Binary = 1100, Grey = 1010
Binary = 1101, Grey = 1011
Binary = 1110, Grey = 1001
Binary = 1111, Grey = 1000
$finish called at time : 160 ns : File "/home/itzzinfinity/Cozy Drive/100daysofRTL/day_042/project_1/project_1.srscs/sim_1/new/tb_
INFO: [USF-XSim-96] XSim completed. Design snapshot 'tb_Bin_to_Grey_behav' loaded.
```

Type a Tcl command here

[/home/itzzinfinity/Cozy Drive/100daysofRTL/day_042/project_1/project_1.srsc/sources_1/new/Bin to Grey.v](#)



```

1 //////////////////////////////////////
2 // Engineer: Anjan Prasad
3 // Create Date: 11/02/2024 04:31:54 AM
4 // Module Name: Bin_to_Grey
5 //////////////////////////////////////
6
7
8 /* Binary to Grey Code Converters */
9 module Bin_to_Grey(
10     input [3:0] b,
11     output [3:0] g);
12     assign g[0] = b[0] ^ b[1];
13     assign g[1] = b[1] ^ b[2];
14     assign g[2] = b[2] ^ b[3];
15     assign g[3] = b[3];
16 endmodule
17

```

/home/itzzinfinity/Cozy Drive/100daysofRTL/day_042/project_1/project_1.srscs/sim_1/new/tb_Bin_to_Grey.v



```
1  `timescale 1ns / 1ps
2  //////////////////////////////////////
3  // Engineer: Anjan Prasad
4  // Create Date: 11/02/2024 04:34:02 AM
5  // Module Name: tb_Bin_to_Grey
6  //////////////////////////////////////
7
8  module tb_Bin_to_Grey;
9      reg [3:0] bin;
10     wire [3:0] grey;
11     Bin_to_Grey uut (.b(bin),.g(grey));
12     initial begin
13         $monitor("Binary = %b, Grey = %b", bin, grey);
14         bin = 4'b0000; #10;
15         bin = 4'b0001; #10;
16         bin = 4'b0010; #10;
17         bin = 4'b0011; #10;
18         bin = 4'b0100; #10;
19         bin = 4'b0101; #10;
20         bin = 4'b0110; #10;
21         bin = 4'b0111; #10;
22         bin = 4'b1000; #10;
23         bin = 4'b1001; #10;
24         bin = 4'b1010; #10;
25         bin = 4'b1011; #10;
26         bin = 4'b1100; #10;
27         bin = 4'b1101; #10;
28         bin = 4'b1110; #10;
29         bin = 4'b1111; #10;
30
31         $finish;
32     end
33 endmodule
```