





```
min max.v × min max tb.v × Untitled 1* ×
/home/itzzinfinity/Cozy Drive/100daysofRTL/day 015/project 1/project 1.srcs/sources 1/new/min max.v
   // Engineer: Anjan Prasad
       // Create Date: 10/06/2024 10:25:08 AM
       // Module Name: min max
       6 -
7 =
       module min_max(
 8
          input [3:0] a,b,
         output A less B,A great B,A equal B
10
       assign A great B = (a>b)?1'b1:1'b0;
13
       assign A less B = (a < b)?1'b1:1'b0;
       assign A equal B = (a==b)?1'b1:1'b0;
14
15 🛆
       endmodule
16
19
20
```

```
x min max tb.v x Untitled 1*
min max.v
/home/itzzinfinity/Cozy Drive/100daysofRTL/day_015/project_1/project_1.srcs/sim_1/new/min_max_tb.v
    timescale 1ns / 1ps
       1// Engineer: Anjan Prasad
       // Create Date: 10/06/2024 10:25:08 AM
       // Module Name: min max tb
       9 🖨
       module min max tb;
10
       req [3:0] a,b;
       wire A less B, A great B, A equal B;
       min max DUT (a,b,A less B,A great B,A equal B);
13 🖨
       initial begin
14
              $display("in between a and b A lessThan B A greaterThan B A equalTo B ");
15
              $monitor("
                                %d
                                       %d
                                                                       %b ", a, b,A_less_B,A_great_B,A_equal_B);
16 🖨
     O repeat(10) begin
       #10
18
              a= $random %16 ;
19
              b= $random %16 :
20
21 🛆
       end
22
     ○⇒$finish;
23 🖒
       end
24
25 🖒
       endmodule
26 i
```