



```

Ln#
1 module quiz_three(a,b,sum);
2   parameter n = 4;
3
4   input[n-1:0]a;
5   input[n-1:0]b;
6   output reg[n:0]sum;
7
8   assign sum = (a + b );
9
10 endmodule
    
```

Ln: 24 Col: 0



```

Ln#
1 module test_quiz_three;
2   reg [4-1:0] a, b;
3
4   wire [4:0]sum;
5
6   initial
7   begin
8       $monitor($time, a, b, sum);
9   end
10  initial
11  begin
12
13      a=2; b=3;
14      #10 a=1; b=3;
15      #10 a=10; b=10;
16      #10 a=15; b=15;
17
18  end
19
20
21
22  quiz_three #(4)test(a,b,sum);
23 endmodule
24
    
```

```

# Compile of Quiz_three.v was successful.
# Compile of testbench_quiz_three.v was successful.
ModelSim> vsim -gui work.test_quiz_three
# vsim -gui work.test_quiz_three
# Start time: 16:48:56 on Oct 29,2021
# Loading work.test_quiz_three
# Loading work.quiz_three
VSIM 11> run -all
#
#          01st num.= 2, 2nd num.= 3,Sum= 5
#          101st num.= 1, 2nd num.= 3,Sum= 4
#          201st num.=10, 2nd num.=10,Sum=20
#          301st num.=15, 2nd num.=15,Sum=30
VSIM 12>
    
```

Project: Assignment 2 Now: 30 ns Delta: 1 ns sim:/test\_quiz\_three



2;

```

=, "1st num.=%d, 2nd num.=%d, Sum=%d", a, b, sum);

```

```
    b, sum) ;
```

Ln: 24 Col: 0