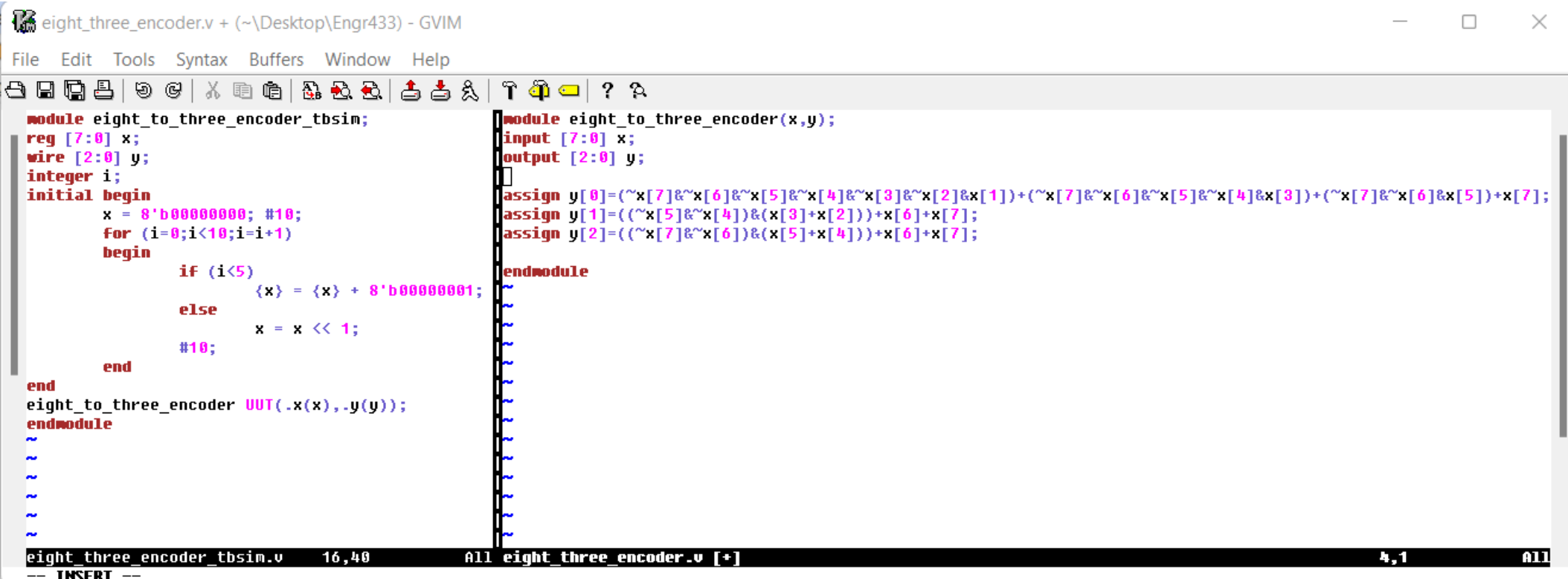
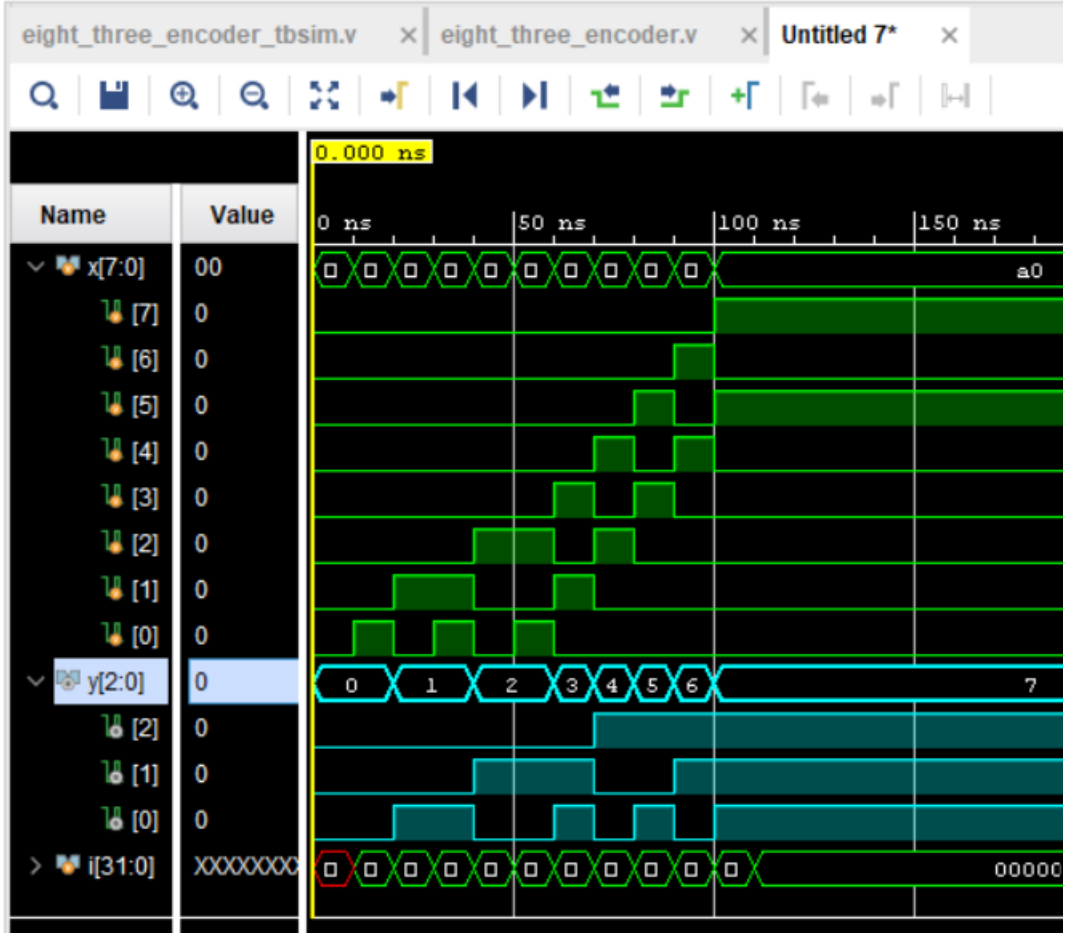

eight_three_encoder.v + (~\Desktop\Engr433) - GVIM
File Edit Tools Syntax Buffers Window Help
module eight_to_three_encoder_tbsim;
reg [7:0] x;
wire [2:0] y;
integer i;
initial begin
x = 8'b00000000; #10;
for (i=0;i<10;i=i+1)
begin
if (i<5)
{x} = {x} + 8'b00000001;
else
x = x << 1;
#10;
end
end
eight_to_three_encoder UUT(.x(x),.y(y));
endmodule
eight_three_encoder_tbsim.v 16,40 All
module eight_to_three_encoder(x,y);
input [7:0] x;
output [2:0] y;
assign y[0]=(~x[7]&~x[6]&~x[5]&~x[4]&~x[3]&~x[2]&x[1])+(~x[7]&~x[6]&~x[5]&~x[4]&x[3])+(~x[7]&~x[6]&x[5])+x[7];
assign y[1]=((~x[5]&~x[4])&(x[3]+x[2]))+x[6]+x[7];
assign y[2]=((~x[7]&~x[6])&(x[5]+x[4]))+x[6]+x[7];
endmodule
eight_three_encoder.v [+] 4,1 All
-- INSERT --


eight_three_encoder_tbsim.v
eight_three_encoder.v
Untitled 7*
0.000 ns
Name
Value
0 ns
50 ns
100 ns
150 ns
x[7:0]
00
[7]
0
[6]
0
[5]
0
[4]
0
[3]
0
[2]
0
[1]
0
[0]
0
y[2:0]
0
[2]
0
[1]
0
[0]
0
i[31:0]
XXXXXXXX
a0
0
1
2
3
4
5
6
7
00000