

EE271 Sp23
April 7, 2023
Lab 1 Submission

Name: Jesse Mistr

Q1: A simple, correct explanation of what the mux4_1 circuit does

The output of the mux4_1 is dependent on the state of the sel0 and sel1 variables. There are also 4 other channels that flip between LOW and HIGH at select different intervals. The integer value of the binary number given by sel0 and sel1 is used to determine which one of the 4 channels to output, ie 00 outputs channel i00 (0), and 10 outputs channel i10 (2).

Q2: The value of the signal (TRUE or FALSE) that makes the LEDR's light up

TRUE

Q3: The position of the slider switches that cause them to output TRUE (we will assume up/down are referenced as if you have the board positioned so the switches are closer to you)

When the switch is up, the signal output is true.

Q4: The position of the pushbuttons that cause them to output TRUE

When the push buttons are not pressed, the output is true.

Your demo day and time: Wednesday, 2:45pm

Who you demoed with: Matthew