CSC 220: Computer Organization
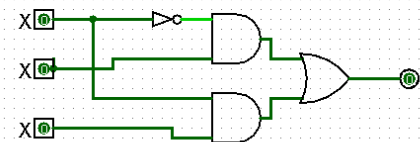
Labwork – 5

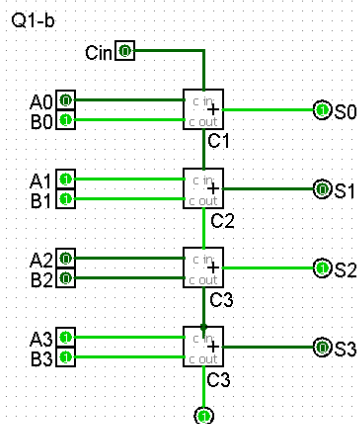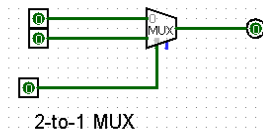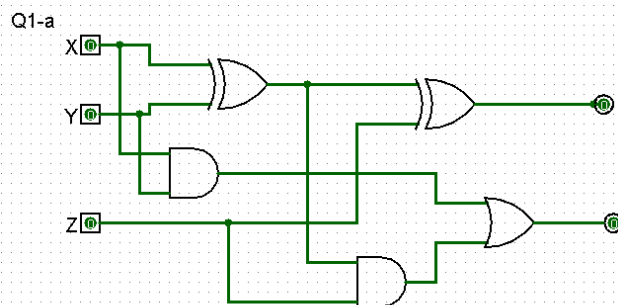**Name: Muaid Almutairi   ID: 442101942**

1. Introduction

Today I learn how to draw Full Adder and 2-to-1 Multiplexer and 4-to-1 Multiplexer circuits.

2. Experiments
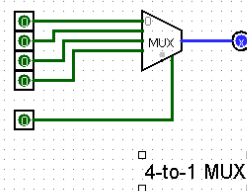
3. Results

Full adder truth table

X	Y	Z	S	C
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

2-to-1 MUX truth table

S	Q
0	D0
1	D1

4-to-1 MUX truth table

S	Q
00	D0
01	D1
10	D2
11	D3

4. Discussion

All the circuits are easy to generate and have the same result with the truth table.