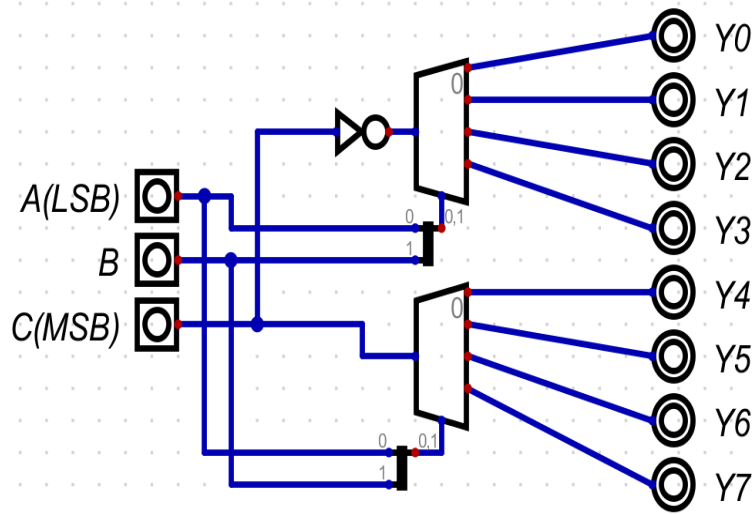
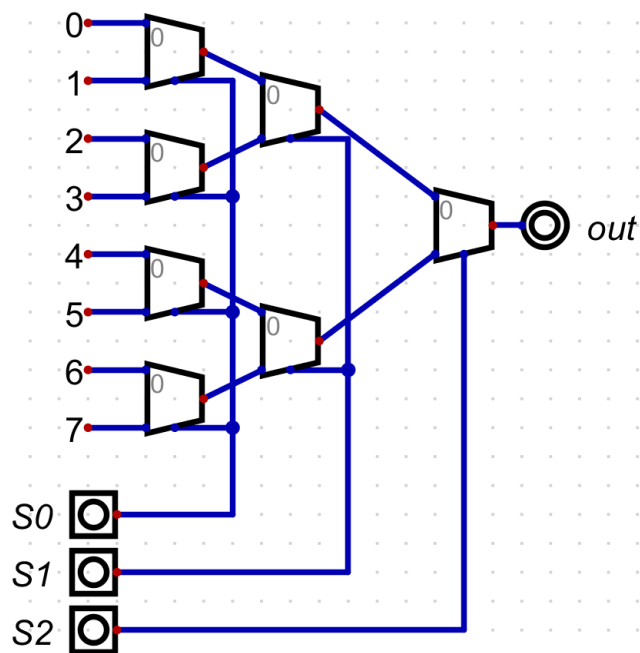


Q1-)



A(LS)	B	C(MS)	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7
0	0	0	1	0	0	0	0	0	0	0
0	0	1	0	0	0	0	1	0	0	0
0	1	0	0	0	1	0	0	0	0	0
0	1	1	0	0	0	0	0	0	1	0
1	0	0	0	1	0	0	0	0	0	0
1	0	1	0	0	0	0	0	1	0	0
1	1	0	0	0	0	1	0	0	0	0
1	1	1	0	0	0	0	0	0	0	1

Q2-)

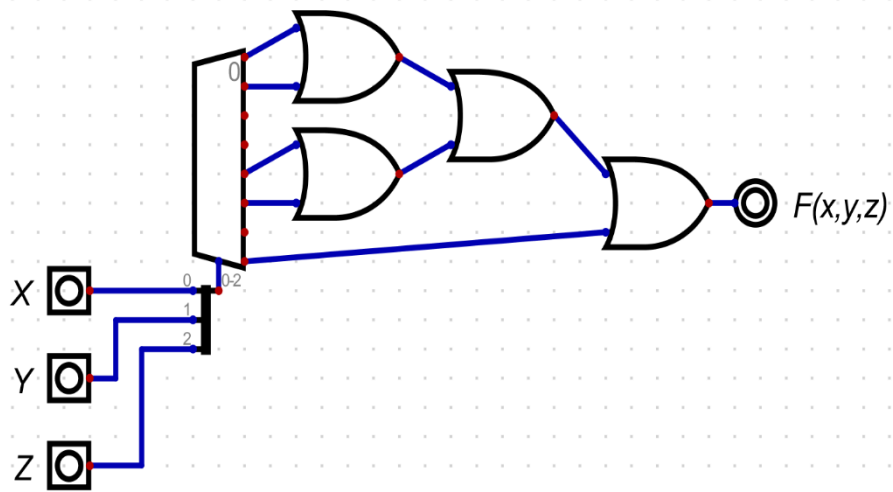


S2	S1	S0	out2	out1	out0
0	0	0	0	0	0
0	0	1	0	0	1
0	1	0	0	1	0
0	1	1	0	1	1
1	0	0	1	0	0
1	0	1	1	0	1
1	1	0	1	1	0
1	1	1	1	1	1

All possible solutions

$out_2 = S2$
 $out_1 = S1$
 $out_0 = S0$

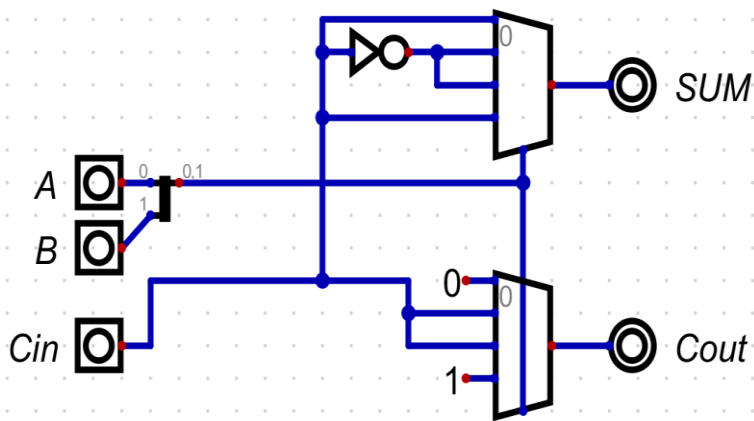
Q3-)



X	Y	Z	F(x,y,z)
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

$F(x,y,z) = (X \wedge Z) \vee \bar{Y}$

Q4-)



All possible solutions

$$\text{SUM} = (\bar{A} \wedge \bar{B} \wedge \text{Cin}) \vee (\bar{A} \wedge B \wedge \bar{\text{Cin}}) \vee (A \wedge \bar{B} \wedge \bar{\text{Cin}})$$

$$\text{Cout} = (A \wedge \text{Cin}) \vee (A \wedge B) \vee (B \wedge \text{Cin})$$

A	B	Cin	SUM	Cout
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