Week 2/lab02 – Computer Systems Assignment (**COS-10004**).

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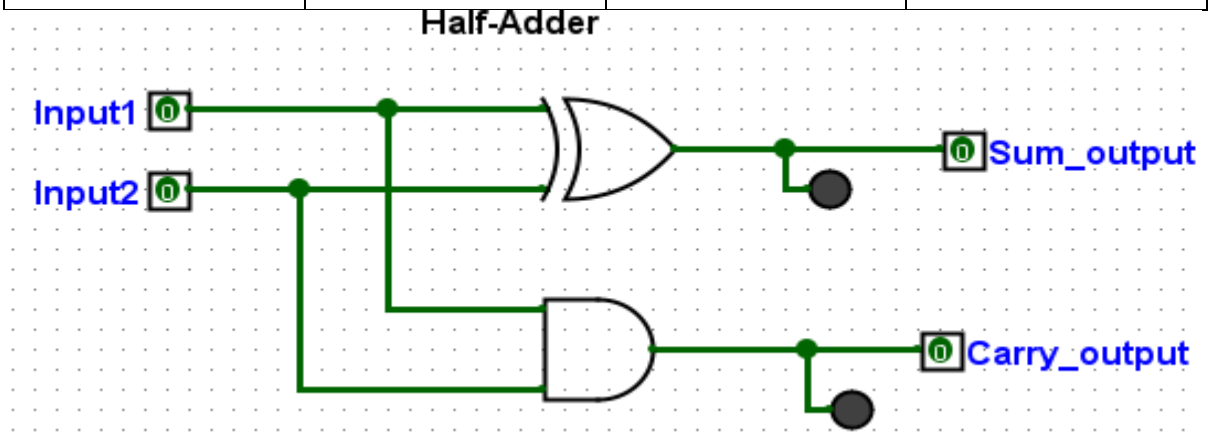
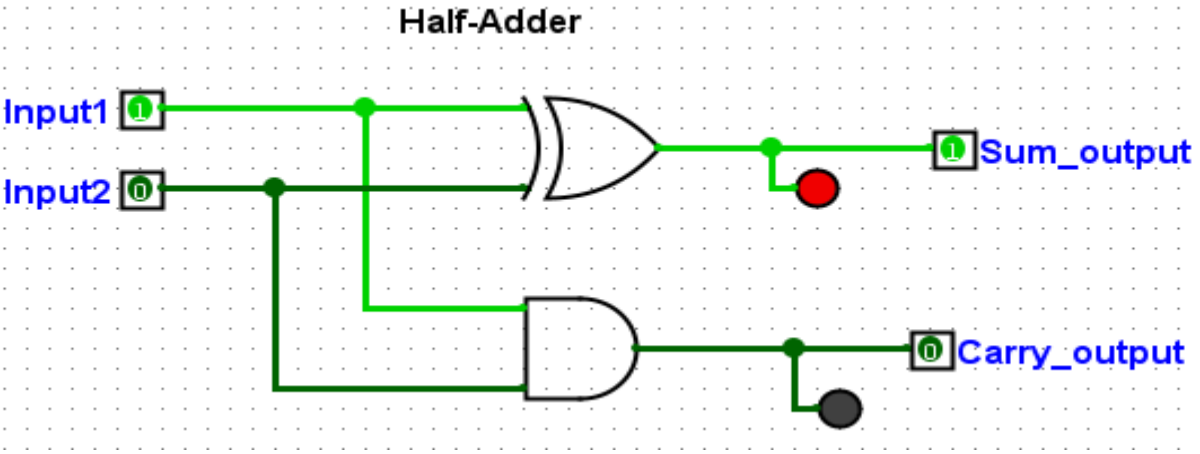
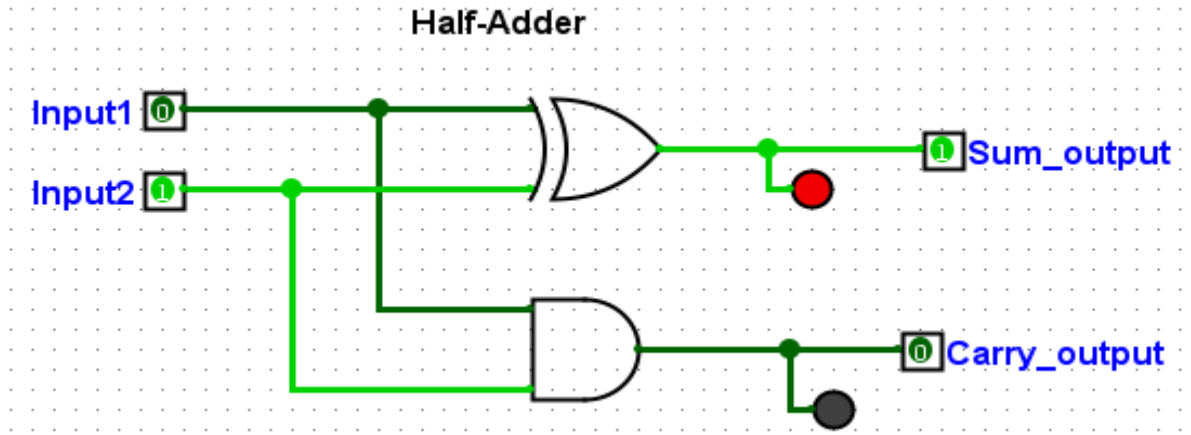
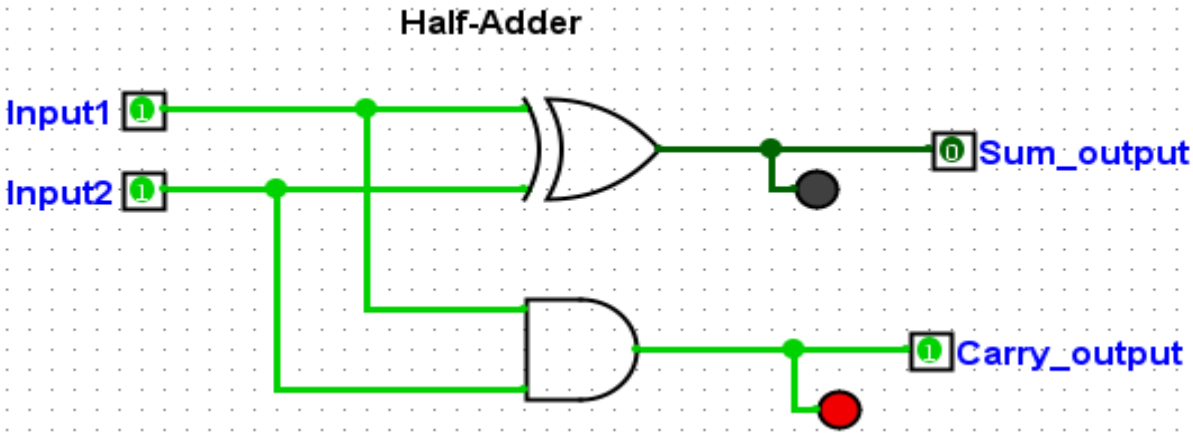
Q2:

Input 1	Input 2	Sum Output	Carry Output
0	0	0	1
0	1	1	0
1	0	1	0
1	1	0	1



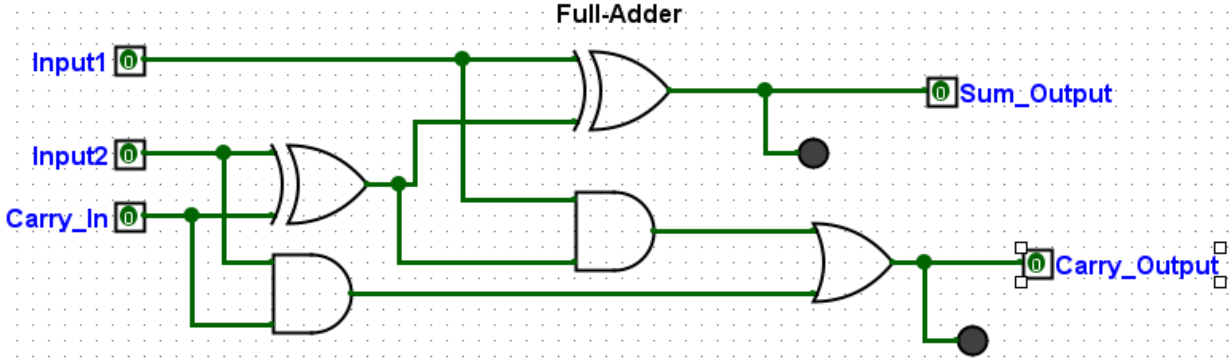


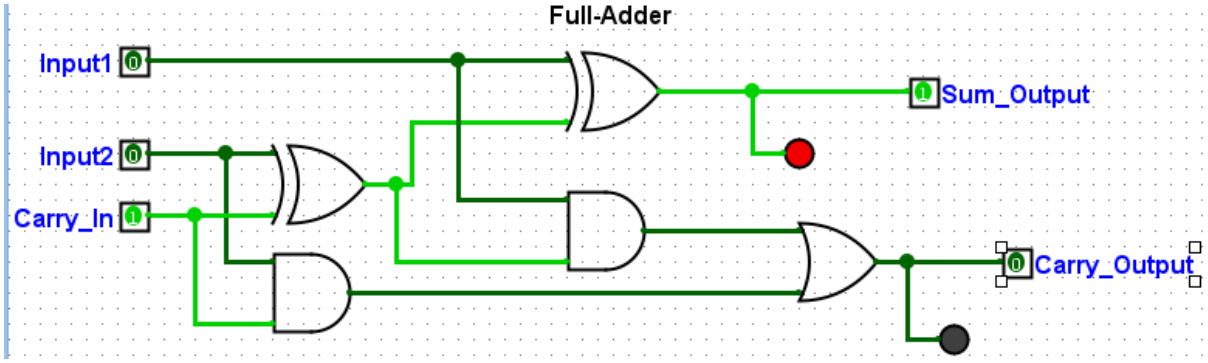


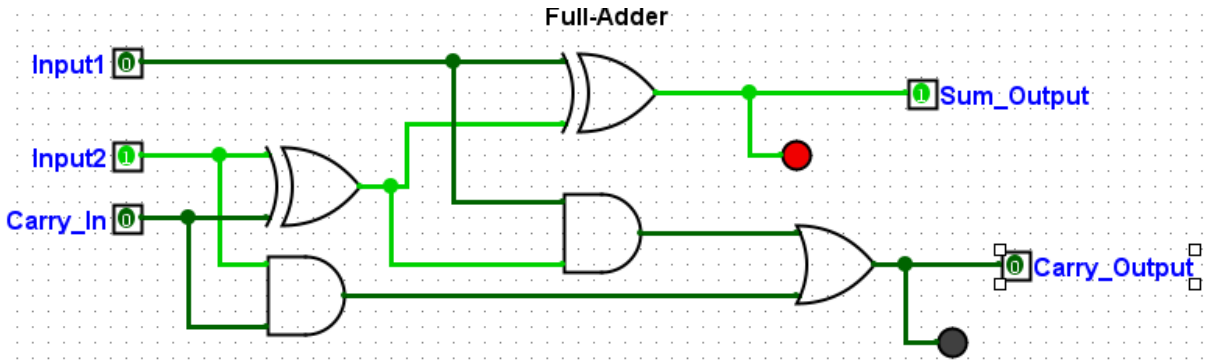


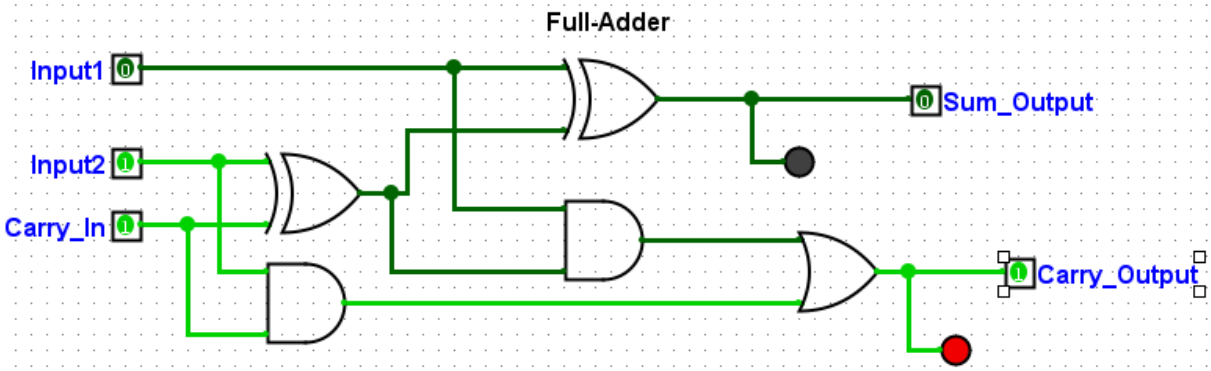
Q4:

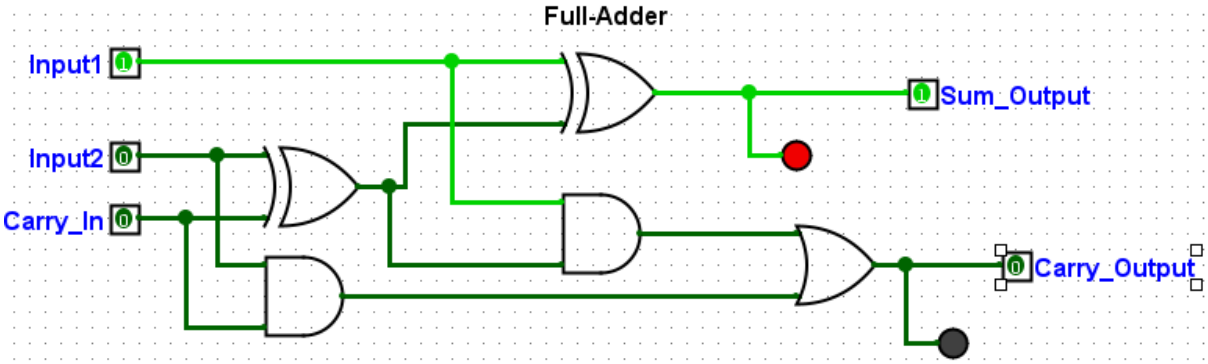
Input 1	Input 2	Carry In	Sum Output	Carry Output
0	0	0	0	0
0	1	0	1	0
1	0	0	1	0
1	1	0	0	1
0	0	1	1	0
0	1	1	0	1
1	0	1	0	1
1	1	1	1	1

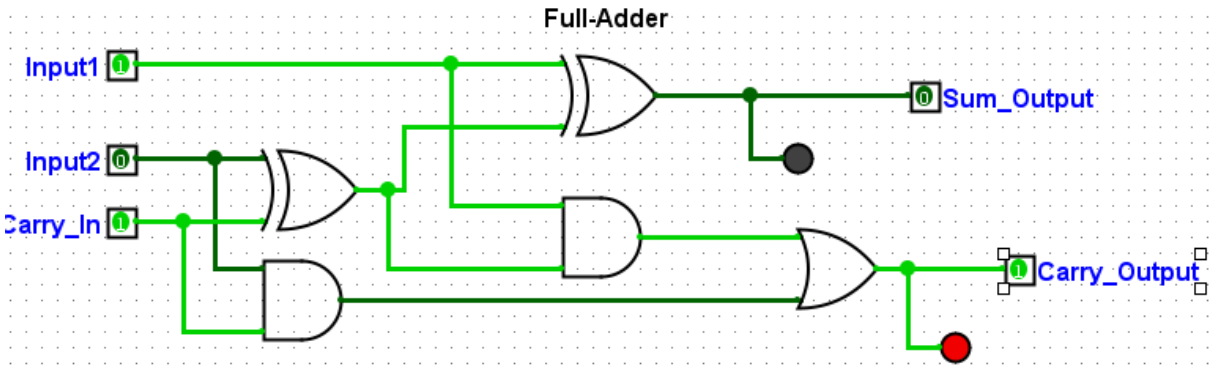


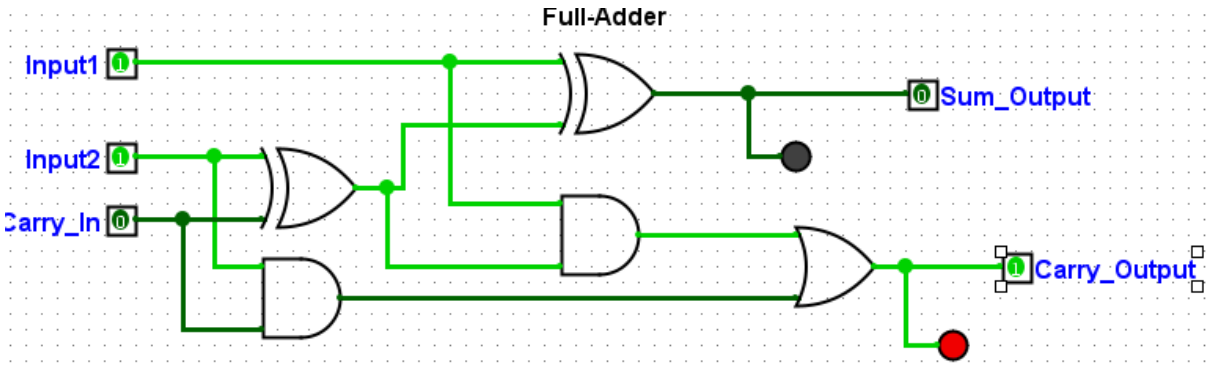

Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output

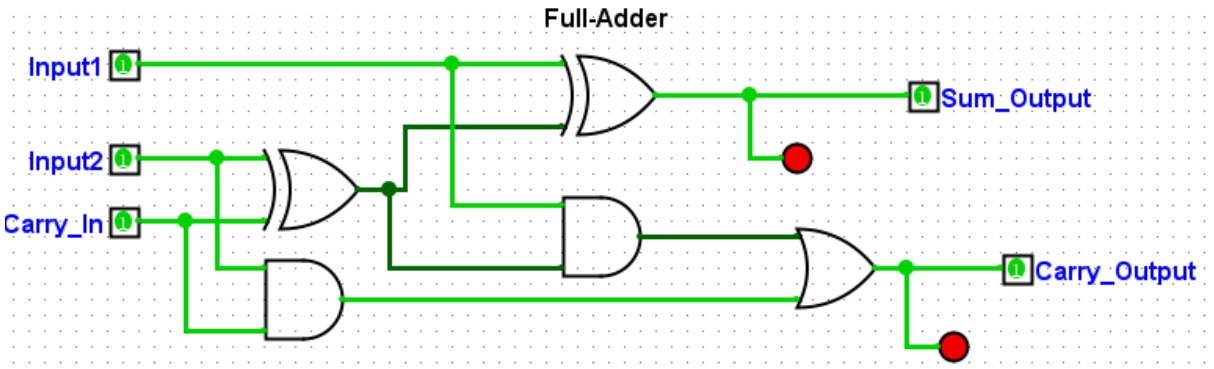

Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output


Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output

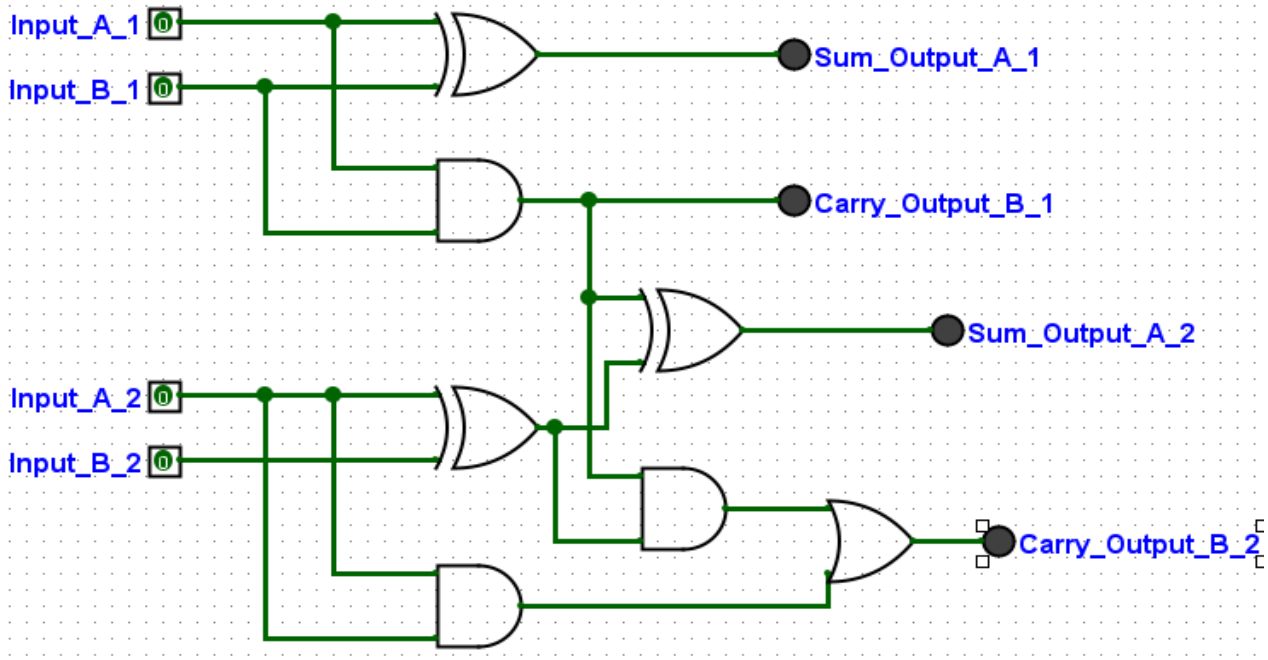

Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output


Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output

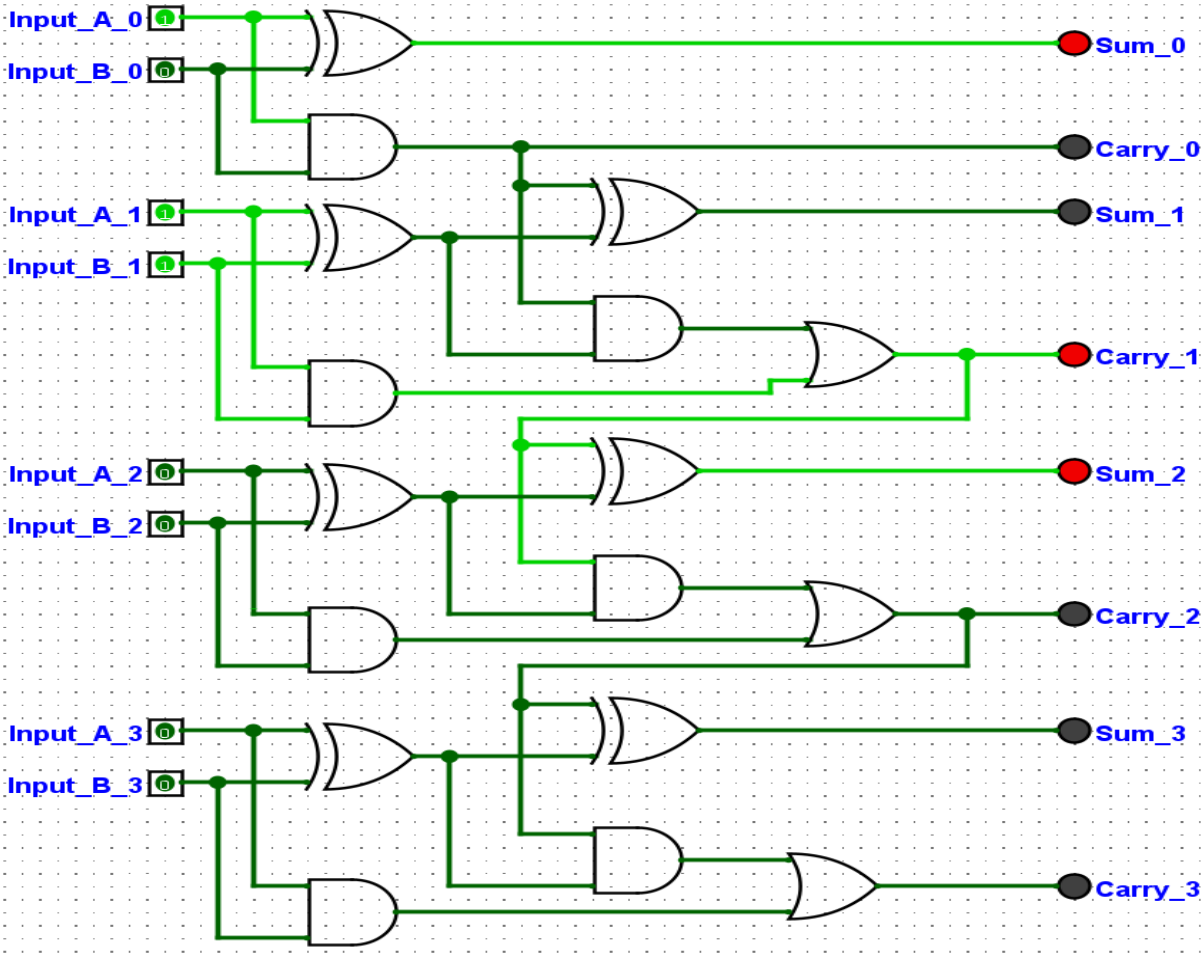

Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output


Full-Adder
Input1
Input2
Carry_In
Sum_Output
Carry_Output

Q5:



Q6/7/8:



Input A	Input B	Output
0101	0000	0101

0101	**0001**	**0110**
0101	**0010**	**0111**
0101	**0011**	**1000**
0101	**0100**	**1001**
0101	**0101**	**1010**
0101	**0110**	**1011**
0101	**0111**	**1101**
0101	**1000**	**1101**
0101	**1001**	**1110**
0101	**1010**	**1111**
0101	**1011**	**10000**
0101	**1100**	**10001**
0101	**1101**	**10010**
0101	**1110**	**10011**
0101	**1111**	**10100**