Homework #3 21707346 Barış Karapelit

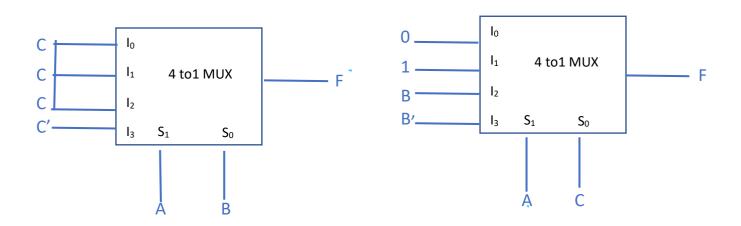
Implement the function $F(A,B,C) = \sum (1,3,5,6)$ with 4 to 1 MUX.

a)Using Truth table

	Α	В	С	F(A,B,C)
M ₀	0	0	0	0
M ₁	0	0	1	1
M ₂	0	1	0	0
M ₃	0	1	1	1
M ₄	1	0	0	0
M ₅	1	0	1	1
M ₆	1	1	0	1
M ₇	1	1	1	0

А	В	F in font of C
0	0	С
0	1	С
1	0	С
1	1	C'

А	С	F font of B
0	0	0
0	1	1
1	0	В
1	1	B'



b) Using implement table

	А	В	С	F(A,B,C)
M ₀	0	0	0	0
M ₁	0	0	1	1
M ₂	0	1	0	0
M ₃	0	1	1	1
M ₄	1	0	0	0
M ₅	1	0	1	1
M_6	1	1	0	1
M ₇	1	1	1	0

	A'B'	A'B	AB'	АВ
	I ₀	I ₁	l ₂	l ₃
C'	0	2	4	6
С	1	3	5	7
	С	С	С	C'

	A'C'	A'C	AC'	AC
	I ₀	I ₁	l ₂	l ₃
B'	0	1	4	5
В	2	3	6	7
	0	1	В	B'

