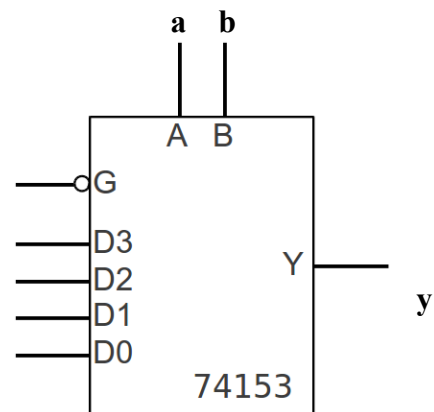
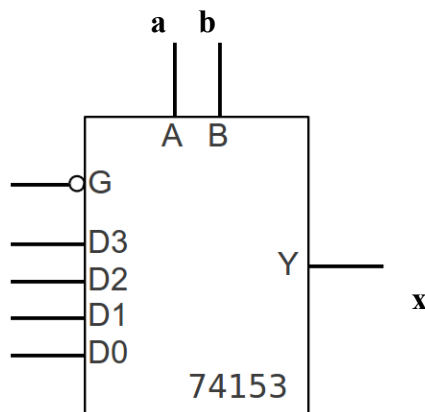


1) Implement the  $x$  and  $y$  Boolean functions using the “4x1 MUX blocks” given below.

a	b	c	x	y
0	0	0	0	1
0	0	1	1	1
0	1	0	0	1
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	1	0
1	1	1	1	0



**Output function of the MUX:**  $Y = G' (A'B'D_0 + A'BD_1 + AB'D_2 + ABD_3)$

2) Implement the  $x$  Boolean function given in (1) by using the OR (VEYA) Gate and active-1 3x8 decoder (aktif-1 3x8 kod çözücü) block given below.

